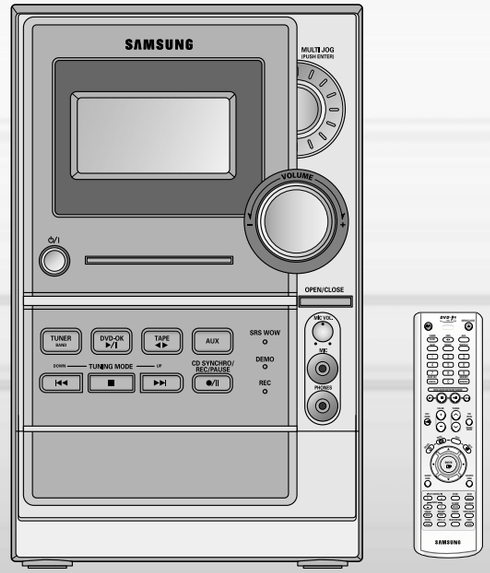
PERSONAL MICRO
COMPONENT SYSTEM

MM-KC9

THIS APPLIANCE IS MANUFACTURED BY:

Instruction Manual

ELECTRONICS



AH68-01606A

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

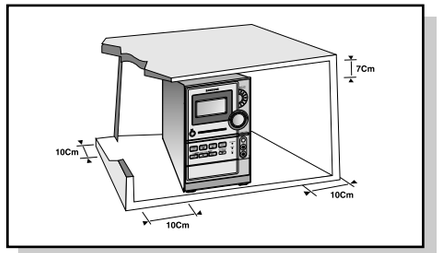
This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

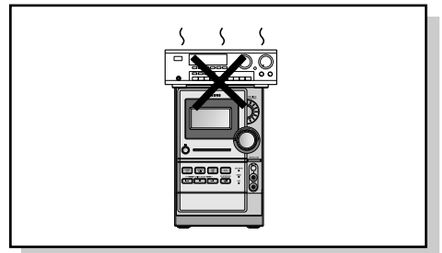
This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

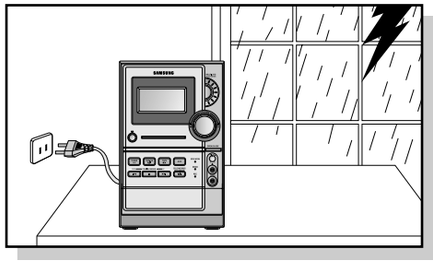
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Precautions

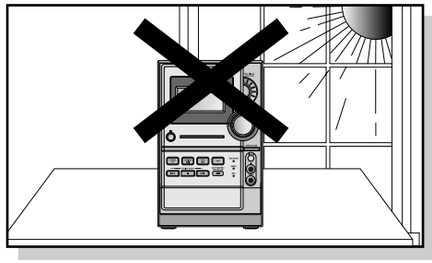




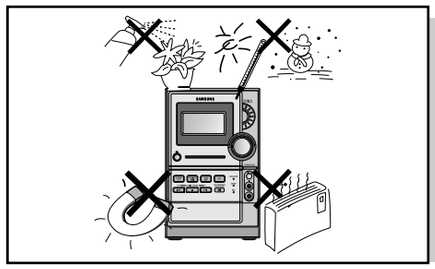
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.

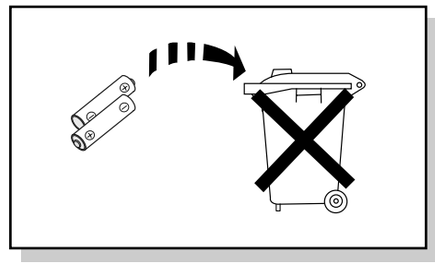


Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

Features

Multi-Disc Playback & AM/FM Tuner, TAPE

The MM-KC9 combines the convenience of multi-disc playback capability, including DVD, DVD-OK, VCD, CD, MP3-CD, CD-R, CD-RW, and DVD-RW, with a sophisticated AM/FM tuner, TAPE, all in a single player.

TV Screen Saver Function

The MM-KC9 automatically brightens and darkens the brightness of the TV screen after 3 minutes in the stop .
The MM-KC9 automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

Power Saving Function

The MM-KC9 automatically shuts itself off after 20 minutes in the stop .

Customized TV Screen Display

The MM-KC9 allows you to select your favorite image during JPEG, DVD playback and set it as your background wallpaper.

DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Copy Protection

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Contents

PREPARATION
Safety Warnings 1
Precautions 2
Features 3
Description 5

CONNECTIONS
Connecting the Speakers 9
Connecting to a TV 10
P.SCAN (Progressive Scan) Function 12
Connecting to External Components 13
Connecting the FM, AM Antennas 14
Setting the Clock 15

OPERATION
Disc Playback 16
DivX Playback 17
Displaying Disc Information 19
Checking the Remaining Time 19
Fast/Slow Playback 20
Skipping Scenes/Songs 21
Angle Function 22
Repeat Playback 23
A-B Repeat Playback 25
Zoom Function 26
Selecting Audio/Subtitle Language 27
Moving Directly to a Scene/Song 28
Using Disc Menu 29
Using the Title Menu 30

SETUP
Setting the Language 31
Setting TV Screen type 33
Setting Parental Controls (Rating Level) 35
Setting the Password 36
Setting the Wallpaper 37
Setting the DRC (Dynamic Range Compression) 39
AV SYNC Setup 40
Playing DVD-OK Discs 41
Connecting Microphone 42
Reserving Accompaniment Music 43
Priority Playing Accompaniment Music 44
Favorite Song Function 45
Search Song Function 47
Key Control / Tempo Control 52
Male-Female Key Control / Melody Function 53
Setting the Chorus 54
Setting the Fanfare 55
Setting the Average Score 56
Setting the Shadow 57
DEMO / DIMMER Function 58

RADIO OPERATION
Listening to Radio 59
Presetting Stations 60

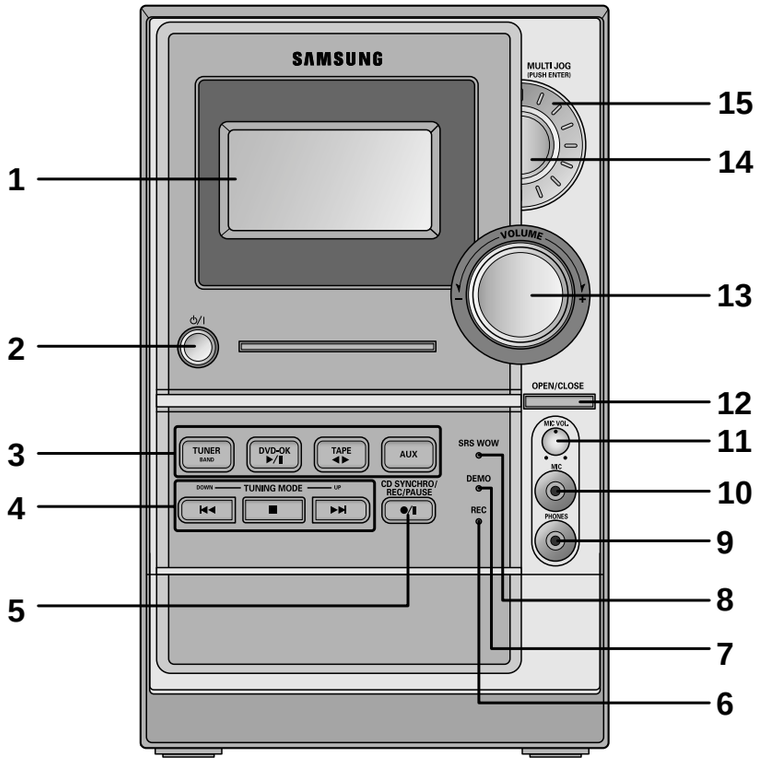
TAPE DECK
Listening to a Cassette 61
REPEAT A↔B Function 62
Selecting the Cassette Playback Mode 62

MISCELLANEOUS
Timer Function 63
Canceling the Timer 64
Recording a Compact Disc 65
Recording a Radio Program 67
SRS WOW / SOUND MODE Function 68
Treble Control / Bass Control Function 69
Sleep Timer / BUZZ Function 70
Mute Function / Connecting Headphones 71
Cautions on Handling and Storing Discs 72
Before Calling for Service 73
Notes on Discs 75

Specifications 77
Notes on Terminology 78

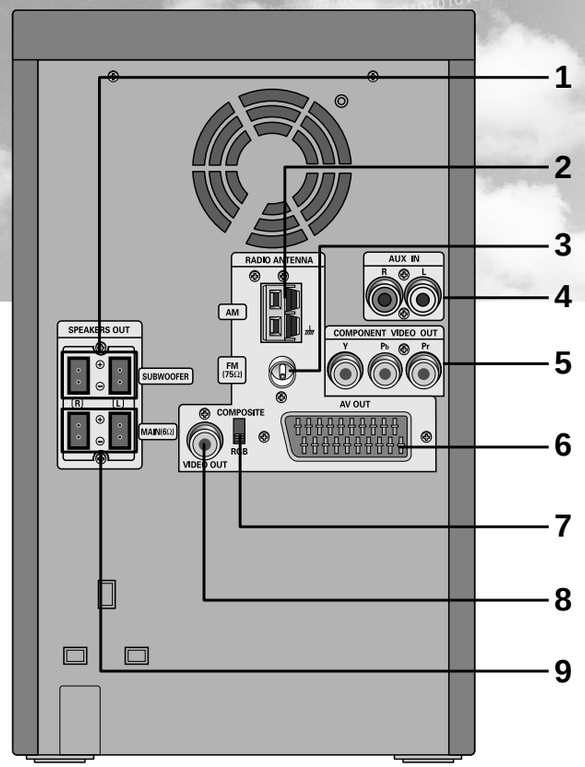
Description

—Front Panel—



1. WINDOW DISPLAY
2. STANDBY/ON
3. FUNCTIONS (TUNER/DVD-OK, CD/TAPE)
4. SEARCH FUNCTION BUTTONS
   TUNING MODE OR STOP BUTTON
5. CD SYNCHRO / REC/PAUSE
6. REC INDICATOR
7. DEMO INDICATOR
8. SRS WOW INDICATOR
9. HEADPHONE JACK
10. MIC JACK
11. MIC VOLUME
12. CD DOOR OPEN/CLOSE
13. VOLUME CONTROL
14. PUSH ENTER
15. MULTI JOG

—Rear Panel—

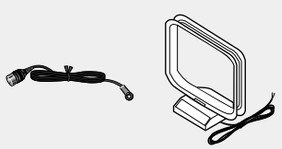


1. **Subwoofer speaker Connector Terminals**
2. **AM Antenna Connectors**
3. **FM Antenna Connector**
4. **AUX-Input**
5. **Component Video Output Connectors**
   Connect a TV with component vide input jacks to these jacks.
6. **Scart Connector**
   Connect to a TV with scart input connector.
7. **Video Out Select Switch**
   Use the switch to set video out
8. **Video Output Connector**
   Connect the TV's video input jacks (VIDEO IN) to the VIDEO OUT connector.
9. **Main speaker Connector Terminals**

Accessories

Remote Control

Video Cable



FM Antenna / AM Antenna

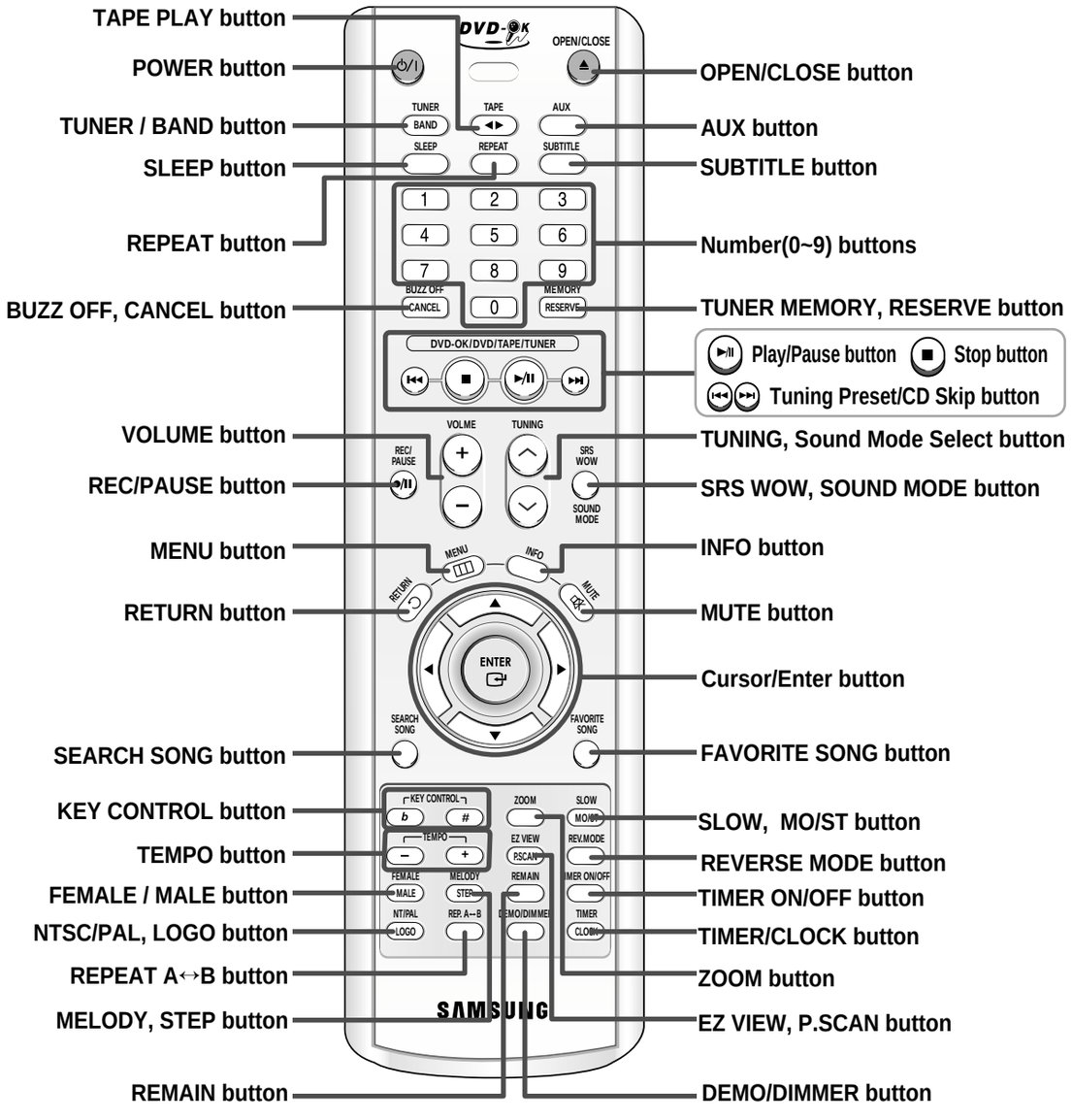
User's Manual

Song list book

DVD KARAOKE DISC

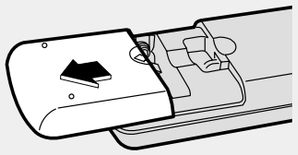
Description

—Remote Control—

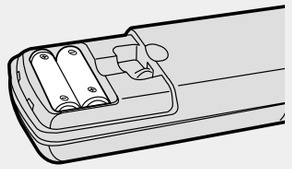


Insert Remote Batteries

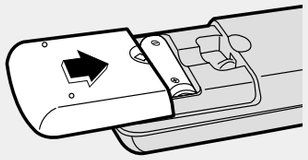
1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



3 Replace the battery cover.

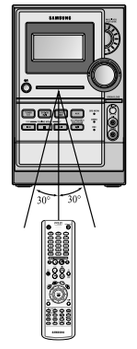


Caution **Follow these precautions to avoid leaking or cracking cells:**

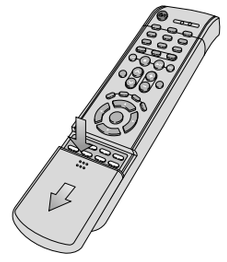
- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

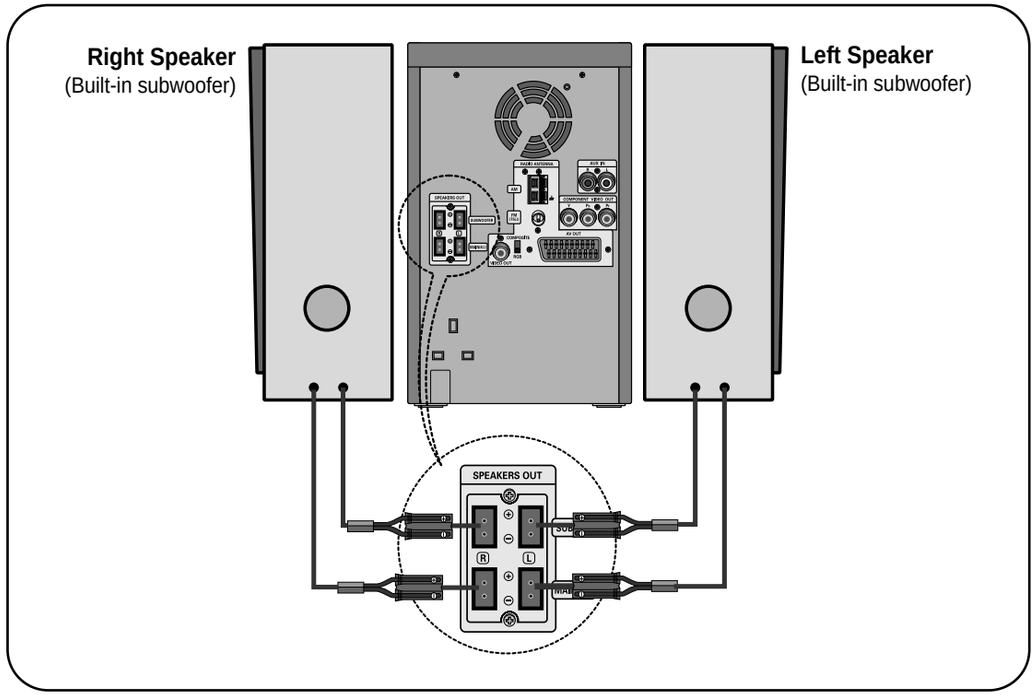


To open the remote control cover, push the top of the cover, then slide downward.



Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of the DVD Player

- Place it on a stand or cabinet shelf, or under the TV stand.

Loudspeakers (L R)

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8feet)
For 55" TVs 3.5~4m (11~13feet)

Directions in Installing Speaker

- Installation in a place near heating apparatus, under direct lay of light or with high humidity may cause performance degradation of the speaker.
- Do not install on the wall or on a high place of pole or other unstable place to prevent any safety accident caused by falling of the speaker.
- Do not take the speaker apart from TV or computer monitor.
  The speaker near the TV or computer monitor may influence the quality of the screen display.

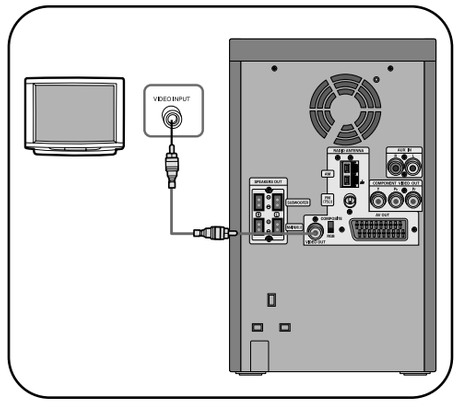
Connecting to a TV

Please be sure to turn off the power and unplug the power cord before moving or installing this unit.
Please choose one of three video connection methods.

Method 1 **Composite Video** (supplied)····· **Good Quality**

1 Connect Video Out on the player to Video In on your TV.

2 Press the TV/VIDEO button on the remote of TV control to set the TV to "VIDEO".

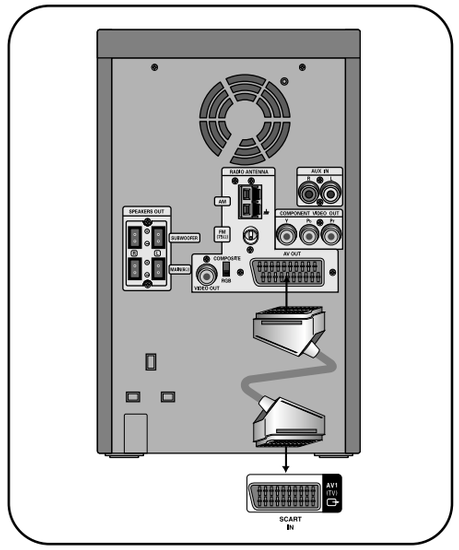


Method 2 **Scart** (not supplied) ····· **Better Quality**

If you television is equipped with an SCART input, connect an Scart Jack (not supplied) from the AV OUT jack on the back panel of the system to the SCART IN jack on your television.

For using the SCART cable

- If Scart is equipped for your TV, set RGB-COMPOSITE selector of the center unit to RGB. You can get a better picture quality by using Scart setting.
- If Scart (RGB Input) is not equipped for your TV, set RGB-COMPOSITE selector to COMPOSITE.

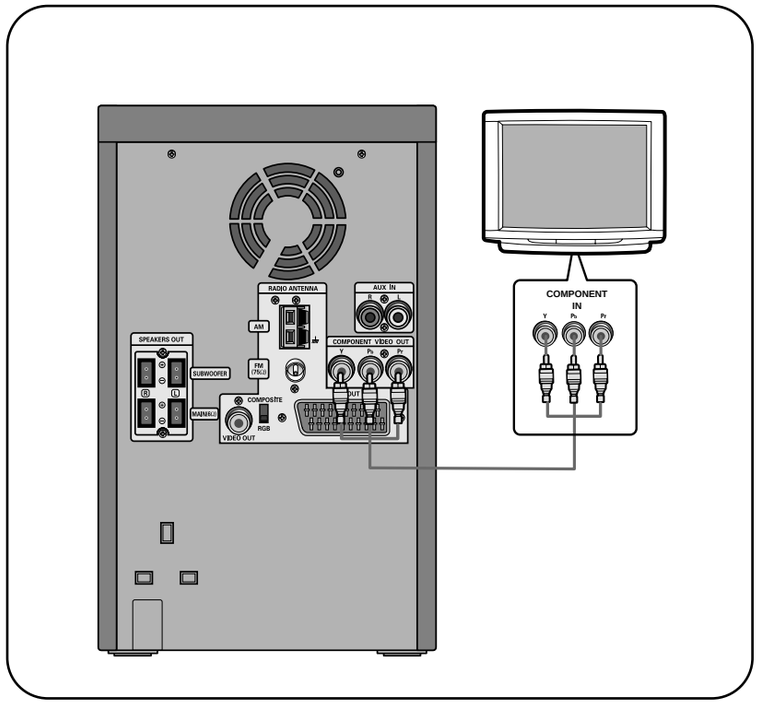


Connecting to a TV (Con't)

Method 3 **Component Video** (not supplied) ····· **Best Quality**

Use this method if your TV have Pr, Pb and Y jacks.

If you television is equipped with Component Video inputs,connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.



Note • Component video is output only when P.SCAN function is selected.

P.SCAN (Progressive Scan) Function

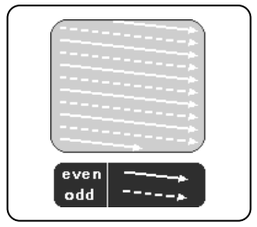
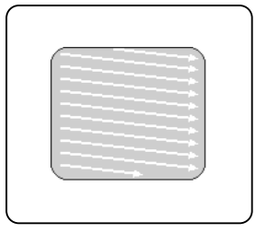
Unlike regular Interlace Scan, in which two fields of picture information alternate to create the entire picture (odd scan lines, then even scan lines), Progressive Scan uses one field of information (all lines displayed in one pass) to create a clear and detailed picture without visible scan lines.

CONNECTIONS

Press and hold P.SCAN button on the remote controller for over 5 seconds in stop mode.

- Pressing and holding the button for over 5 seconds will select "**Progressive Scan**" and "**Interlace Scan**" repetitively.

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS)	Progressive Scan (FULL FRAME)
	
In interlaced-scan video, a frame consists of two interlaced fields (odd and even), where each field contains every other horizontal line in the frame. The odd field of alternating lines is displayed first, and then the even field is displayed to fill in the alternating gaps left by the odd field to form a single frame. One frame, displayed every 1/30th of a second, contains two interfaced fields, thus a total of 60 fields are displayed every 1/60th of a second. The interlaced scanning method is intended for capturing a still object.	The progressive scanning method scans one full frame of video consecutively down the screen, line by line. An entire image is drawn at one time, as opposed to the interlaced scanning process by which a video image is drawn in a series of passes. The progressive scanning method is desirable for dealing with moving objects.

Note
- This function works only on TVs equipped with component video inputs (Y, Pb, Pr) that support Progressive Video. (It does not work on TVs with conventional component inputs, i.e., non-progressive scan TVs.)
- Depending on the brand and model of your TV, this function may not work.

Selecting the Video Format

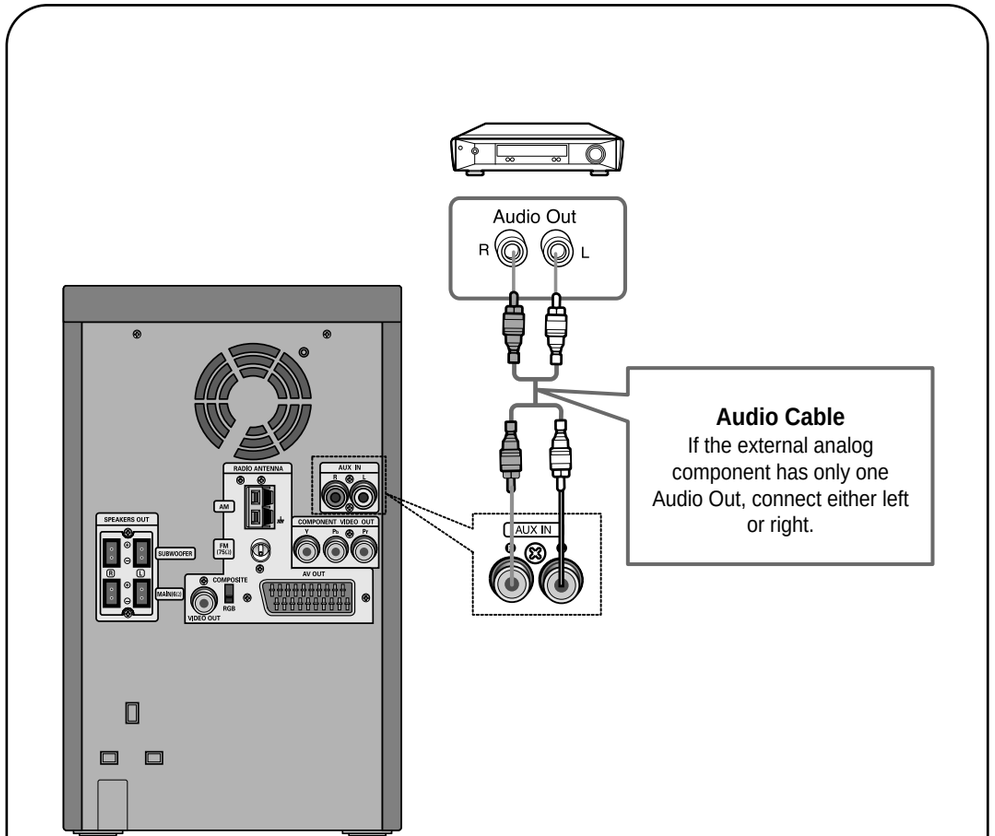
Turn off the main unit and then press **NT/PAL** on the Remote Control.

- By default, the video format is set to "PAL".
- Each time the button is pressed, the video format switches between "NTSC" and "PAL".
- Each country has a different video format standard.
- For normal playback, the video format of the disc must be the same as the video format of your TV.

Connecting to External Components

Connecting to an External Analog Component

Example: Analog signal components such as a VCR, Camcorder, and TV.



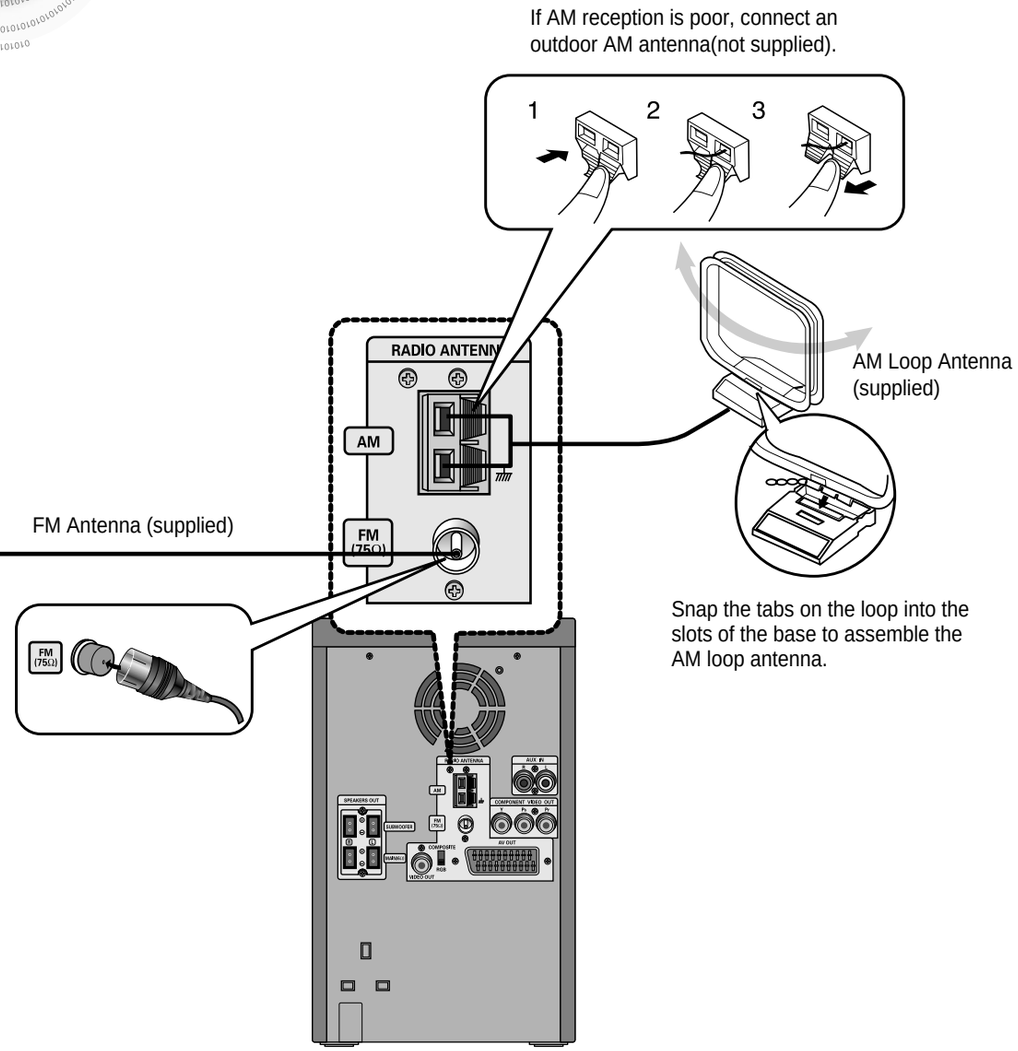
1 Connect Audio In on the DVD player to Audio Out on the external analog component.

- Be sure to match connector colors.

2 Press **AUX** to select AUX.

- '**AUX**' appears in the display.

Connecting the FM, AM Antennas


If AM reception is poor, connect an outdoor AM antenna(not supplied).
1
2
3
AM Loop Antenna (supplied)
FM Antenna (supplied)
RADIO ANTENNA
AM
FM (75Ω)
Snap the tabs on the loop into the slots of the base to assemble the AM loop antenna.

FM antenna connection

1. **Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal.**
2. **Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.**

AM antenna connection

1. **Connect the AM loop antenna supplied to the AM and ⏚ terminals.**
2. **If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).**

Setting the Clock

For each step, you have a few seconds to set the required options.
If you exceed this time, you must start again.

1 Switch the system on by pressing **POWER** button.

2 Press **CLOCK** twice.

- **CLOCK** is displayed.

3 Press **ENTER**. The hour flashes.

- Increase the hours :
- Decrease the hours :

4 When the correct hour is displayed, press **ENTER**. The minutes flash.

- Increase the minutes :
- Decrease the minutes :

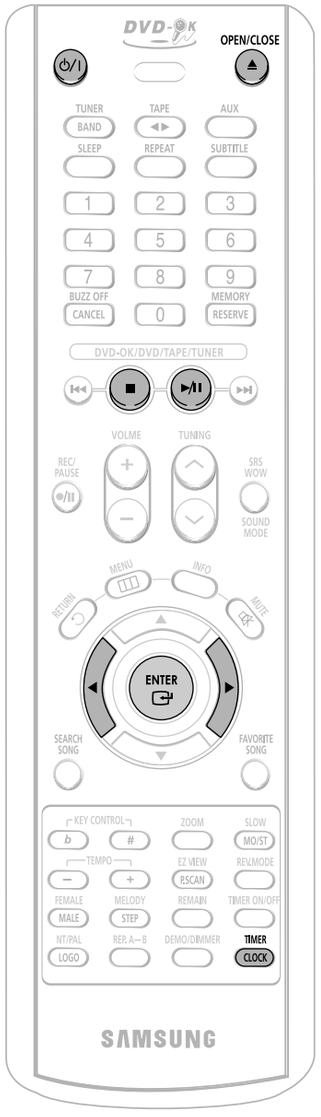
5 When the correct time is displayed, press **ENTER**.

- "**TIMER**" appears in the display.
- The current time is now set.

Note

- You can display the time, even when you are using another function, by pressing **CLOCK** once.

Disc Playback



1 Press **OPEN/CLOSE** button to open the disc tray.

2 Load a disc.

- Place a disc gently into the tray with the disc's label facing up.

3 Press **OPEN/CLOSE** button to close the disc tray.

DVD VCD CD

- Playback starts automatically.

MP3 DivX JPEG

- Playback starts automatically.
- If the TV is on, a list of MP3s on the CD will appear on the TV screen.

Note

- Depending on the content of the disc, the initial screen may appear different.
- Depending on the recording mode, some MP3-CDs cannot be played.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.

To stop playback, press **STOP** during playback.

- If pressed once, "**PRESS PLAY**" is displayed and the stop position will be stored in memory. If **PLAY/PAUSE** (▶II) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, "STOP" is displayed, and if **PLAY/PAUSE** (▶II) button is pressed, playback starts from the beginning.

To temporarily pause playback, press **PLAY/PAUSE** during playback.

- To resume playback, press **PLAY/PAUSE** button again.

DivX Playback

Skip Forward/Back

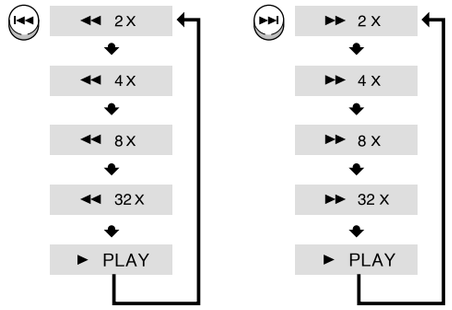
During playback, press the ⏮ ⏭ button.

- Go to the next file whenever you press ⏭ button, if there are over 2 files in the disk.
- Go to the previous file whenever you press ⏮ button, if there are over 2 files in the disk.

Fast playback

Press and hold ⏮ ⏭ button.

- Each time the button is held down during playback, the playback speed changes as follows:

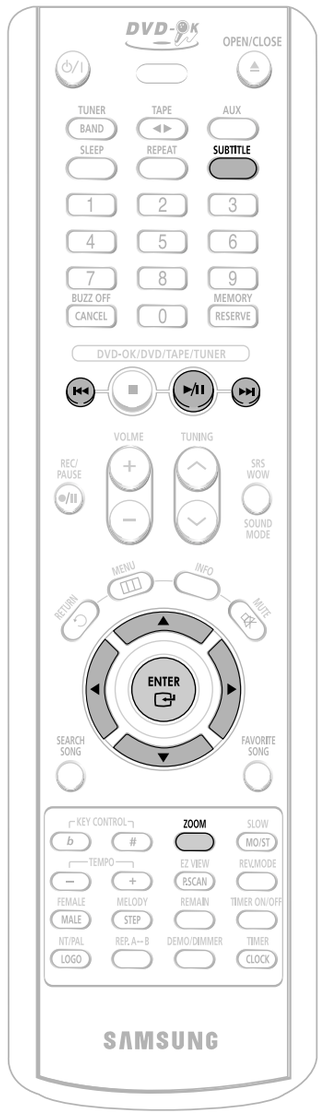


Zoom Function

1 Press **ZOOM** button.

- Each time you press the button, your selection will toggle between "**ZOOM X2**" and "**ZOOM OFF**".

2 Press Cursor ▲, ▼, ◄, ► buttons to move to the area you want to enlarge.



Note

- DivX files can be played in Zoom X2 mode only.

5 Minute Skip function

During playback, press the ◄, ► button.

- Go to the screen about 5 minutes after whenever you press ► button.
- Go to the screen about 5 minutes earlier whenever you press ◄ button.

Subtitle Display

Press the **SUBTITLE** button.

- Each time you press the button, your selection will toggle between "**SUBTITLE ON**" (1/1, 1/2 ...) and "**SUBTITLE OFF**".
- If the disc has only one subtitle file, it will be played automatically.

DivX Feature Table

DivX Supported

Avi files are used to contain the audio and video data; these must be stored on CD in the ISO 9660 format.

		SPEC
VIDEO Compatibility	DivX3.11	Up to the latest VERSION
	WMV	WMV V1/V2/V3/V7
	Screen Size	720~576
AUDIO Compatibility	MP3	CBR : 80kbps~320kbps
	AC3	CBR : 128kbps~384kbps
	WMA	CBR : 56kbps~160kbps

MPEGs containing DivX can be divided into Video and Audio.

- **Video compatibility** : All versions of DivX later than 3.11 (including the latest 5.1) are supported. In addition, XviD is supported. For WMV, V1, V2, V3, and V7 formats are possible.
- **Audio compatibility** : MP3s encoded at bitrates from 80kbps to 320kbps, AC3s from 128kbps to 384kbps, and WMAs from 56kbps to 160kbps are supported.
- **In addition, for subtitles, this unit will support Text format (SMI).**

Note

- When playing the DivX disk, you can play the file with extension of AVI only.
- Among the available DivX audio formats, DTS Audio is not supported.
- WMV V8 is not supported for WMV files.
- When burning a subtitle file to a CD-ROM with your PC, be sure to burn it as an SMI file.
- DivX will not play when its sampling frequency is lower than 32KHz.
- Depending on the encoding conditions, some discs recorded in DivX or XviD may not play correctly or not play back at all.

Displaying Disc Information

You can view playback information on the disc on the TV screen.

Press **INFO** button.

- Each time the button is pressed, the display changes as follows:

DVD

Display disappears

VCD CD

Display disappears

MP3 DivX JPEG

Display disappears

- **What is a Title?**
  A movie contained in a DVD disc.
- **What is a Chapter?**
  Each title on a DVD disc is divided into several smaller sections called "chapters".
- **appears on the TV screen!**
  If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.
- **What is a Track (File)?**
  A section of video or a music file recorded on a VCD, CD, or MP3-CD.

Note

- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DOLBY DIGITAL, or PRO LOGIC.

Screen Display

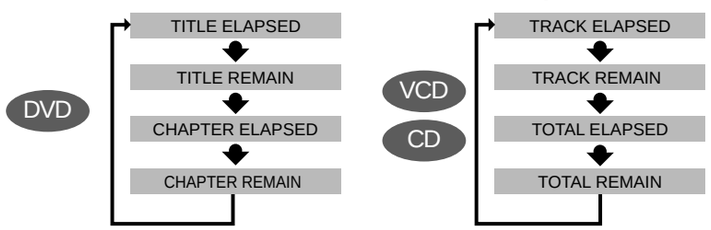
DVD	DVD display	MP3	MP3 CD display		TRACK (FILE) display		AUDIO LANGUAGE display	DOLBY DIGITAL	DOLBY DIGITAL display
VCD	VCD display	DivX	DivX display		TITLE display		ELAPSED TIME display		SUBTITLE display
CD	CD display		CHAPTER display		REPEAT PLAYBACK display	LR	STEREO (L/R) display		ANGLE display

Checking the Remaining Time

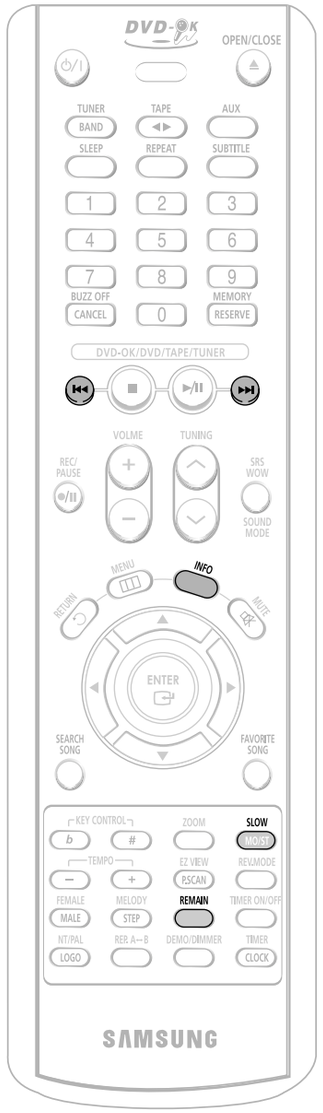
Press the REMAIN button.

- For checking the total and remaining time of a title or chapter being played.

Each time the REMAIN button is pressed



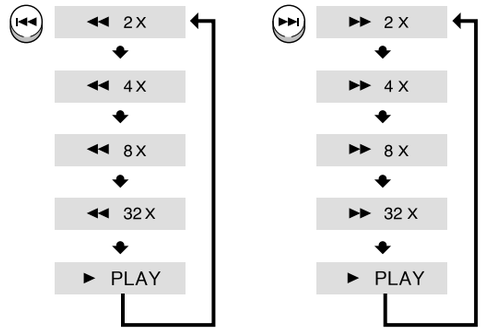
Fast/Slow Playback



Fast Playback DVD VCD CD MP3

Press and hold ⏮◀◀ ▶▶⏭.

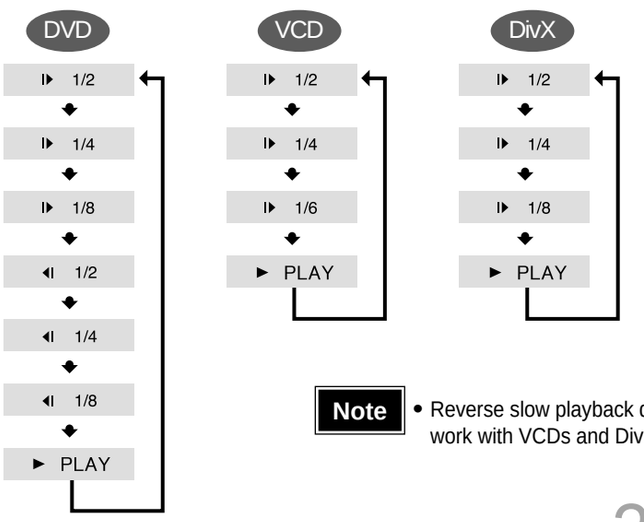
- Each time the button is held down during playback, the playback speed changes as follows:



Slow Playback

Press **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:



Note

- Reverse slow playback does not work with VCDs and DivX.

OPERATION

Skipping Scenes/Songs

DVD VCD MP3

Briefly press ⏮ ⏭.

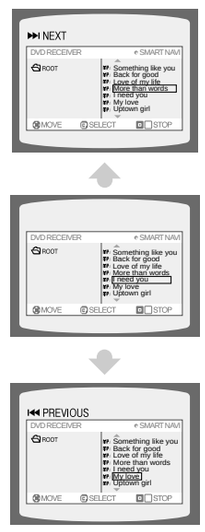
- Each time the button is pressed briefly during playback, the previous or next chapter, track, or directory (file) will be played.
- But, you cannot skip chapters consecutively.

DVD

VCD

- When watching a VCD with a track longer than 15 minutes, each time ⏮ ⏭ is pressed, playback will skip back or forward 5 minutes.

MP3



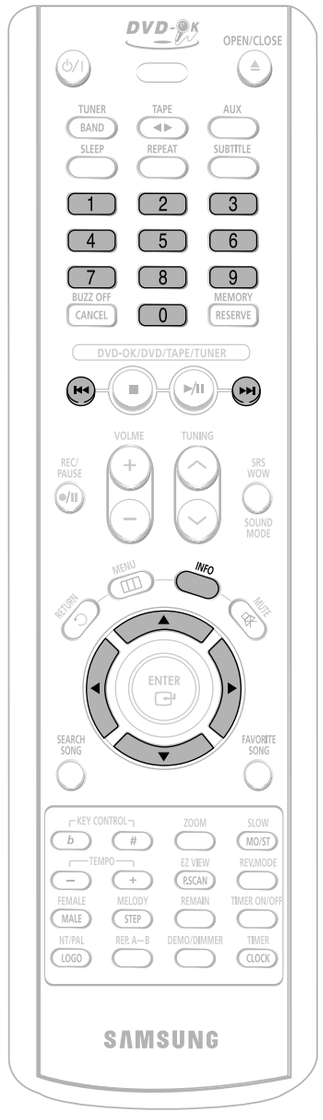
Note

- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.
- No sound is heard during slow playback and step motion playback.

Angle Function

This function allows you to view the same scene in different angles.

DVD



1 Press **INFO** button.

DVD 01/01 001/040 0:00:37 1/3

2 Press Cursor ▶ button to move to ANGLE display.

DVD 01/01 001/040 0:00:37 1/3

3 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired angle.

- Each time the button is pressed, the angle changes as follows:

DVD 01/01 001/040 0:00:37 1/3 → 2/3 → 3/3

Note

- The Angle function works only with discs on which multiple angles have been recorded.

OPERATION

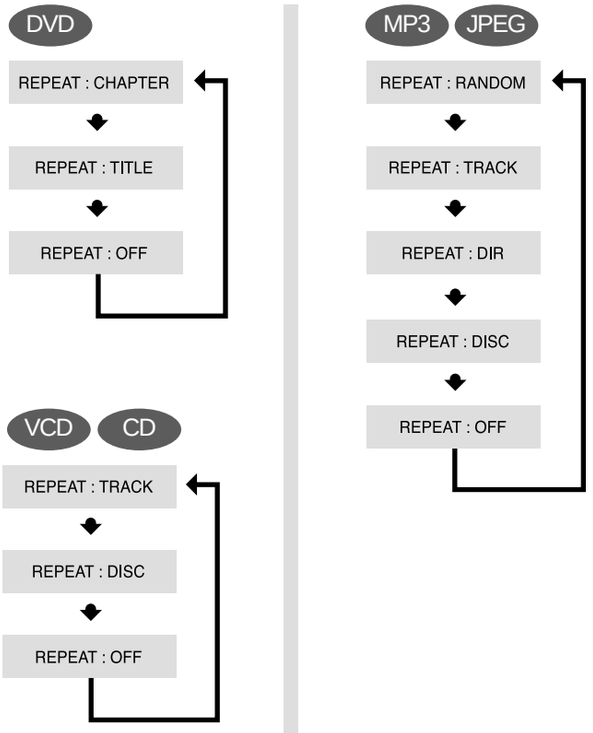
Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

DVD VCD CD MP3 JPEG

Press **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:



Repeat Playback Options

CHAPTER
Repeatedly plays the selected chapter.

TITLE
Repeatedly plays the selected title.

RANDOM
Plays tracks in random order.
(A track that has already been played may be played again.)

TRACK
Repeatedly plays the selected track.

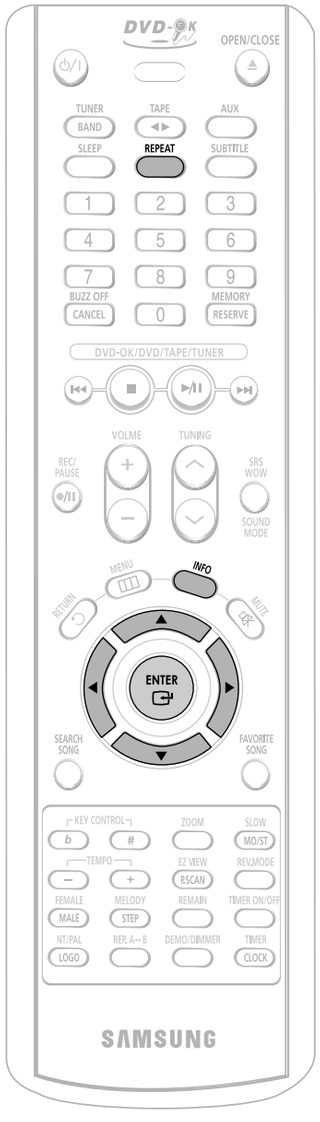
DIR
Repeatedly plays all tracks in the selected folder.

DISC
Repeatedly plays the entire disc.

OFF
Cancels Repeat Playback.

Note

- Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on.
  To use Repeat Playback on a VCD with PBC, you should set the PBC to OFF in the disc menu. (See page 29.)



DVD VCD CD

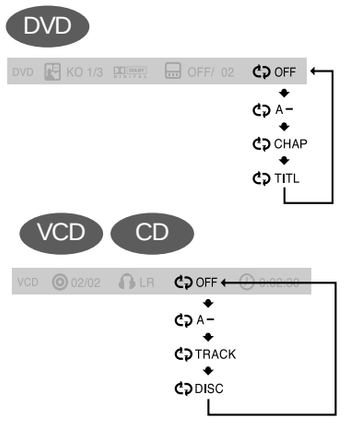
To Select a Repeat Playback Mode in the Disc Information Screen

1 Press **INFO** button twice.

For a VCD or CD,Press INFO button once.

2 Press Cursor ▶ button to move to REPEAT PLAYBACK display.

3 Press Cursor ▼ button to select the desired Repeat Playback mode.



4 Press **ENTER** button.

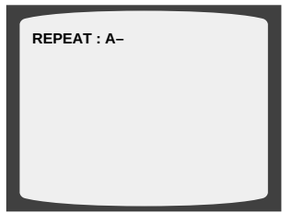
Note

- For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.
- For VCD Version 2.0 discs, you can select Repeat Play in PBC off mode.

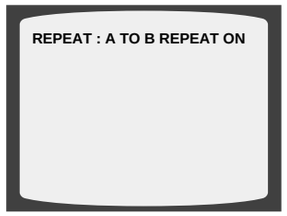
A-B Repeat Playback

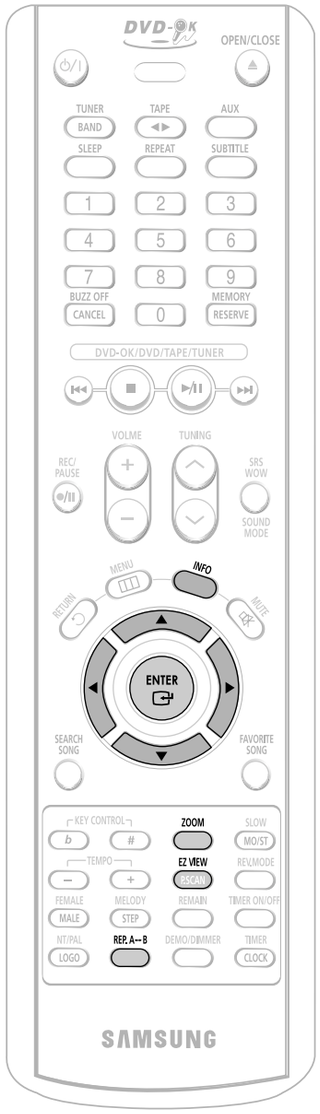
DVD VCD CD

1 Press **REP. A↔B** at the beginning of the section you want to repeat.

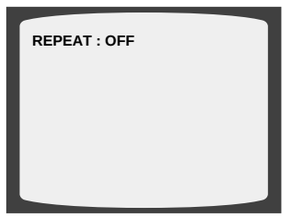


2 Press **REP. A↔B** at the end of the section.





To cancel AB Repeat Playback, press **REP. A↔B** to select "**REPEAT OFF**".



Note

- A–B Repeat Playback does not work on MP3 and JPEG discs.
- To select AB Repeat Playback from the information display screen, press **REP. A↔B**.

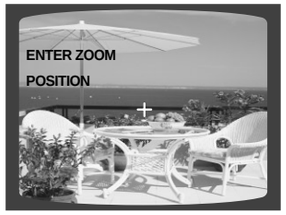
Zoom Function

This function allows you to enlarge a particular area of the displayed image.

Zoom (Screen Enlarge) Function

DVD VCD

1 Press **ZOOM** button.



2 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the area you want to enlarge.

3 Press **ENTER** button.

- Each time the button is pressed, the zoom level changes as follows:

ZOOM X 1.5 → ZOOM X 2 → ZOOM X 3 → ZOOM OFF

Aspect Ratio

DVD

Press **EZ VIEW** button.

- Each time the button is pressed, the zoom function will switch between On and Off.
- When a movie is played in Widescreen format, black bars at the top and bottom of the TV screen can be removed by pressing the **EZ VIEW** button.

Note

- This function will not work if the DVD is recorded with multi-camera angle format.
- Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.

OPERATION

Selecting Audio/Subtitle Language

Audio Language Selection Function DVD

1 Press **INFO** button twice.

DVD KO 1/3 DOLBY DIGITAL OFF/ 02 OFF

2 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired audio language.

- Depending on the number of languages on a DVD disc, a different audio language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.

DVD KO 1/3 DOLBY DIGITAL OFF/ 02 OFF

EN 2/3

JA 3/3

Subtitle Language Selection Function DVD

1 Press **INFO** button twice.

DVD KO 1/3 DOLBY DIGITAL OFF/ 02 OFF

2 Press Cursor ▶ button to move to SUBTITLE display.

DVD KO 1/3 DOLBY DIGITAL OFF/ 02 OFF

3 Press Cursor ▼ button or numeric buttons to select the desired subtitle.

DVD KO 1/3 DOLBY DIGITAL KO 01/ 03 OFF

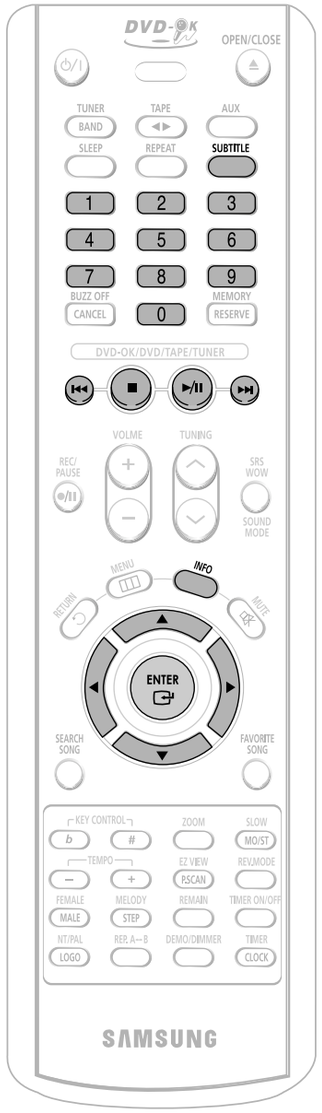
EN 02/ 03

JA 03/ 03

OFF / 03

Note

- You can use the SUBTITLE button on the remote control to select a subtitle language.
- Depending on the disc, the Subtitle and Audio Language functions may not work.



Moving Directly to a Scene/Song

DVD VCD CD

1 Press **INFO** button.

DVD 01/05 001/040 0:00:37 1/1

Moving to a Title/Track

2 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired title/track and then press **ENTER** button.

DVD 03/05 001/002 0:00:01 1/1

Moving to a Chapter

3 Press Cursor ◀, ▶ buttons to move to Chapter display.

DVD 01/05 001/040 0:00:01 1/1

Moving to a Chapter

4 Press Cursor ▲, ▼ buttons or numeric buttons to select the desired chapter and then press **ENTER** button.

DVD 01/05 025/040 0:00:01 1/1

Moving to a Specific Time

5 Press Cursor ◀, ▶ buttons to move to time display.

DVD 01/05 025/040 1:17:30 1/1

Moving to a Specific Time

6 Press the numeric buttons to select the desired time and then press **ENTER** button.

DVD 01/05 028/040 1:30:00 1/1

MP3 JPEG

Press the **numeric** buttons.

- The selected file will be played.
- An MP3 or JPEG disc cannot be moved from the disc information screen.
- When playing an MP3 or JPEG disc, you cannot use ▲, ▼ to move a folder. To move a folder, press ■ (Stop) and then press ▲, ▼ .

Note

- You can press ⏮ ⏭ on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

OPERATION

Using Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc.
DVD menu contents differ from disc to disc.

DVD

1 Press **MENU** button in the stop mode.

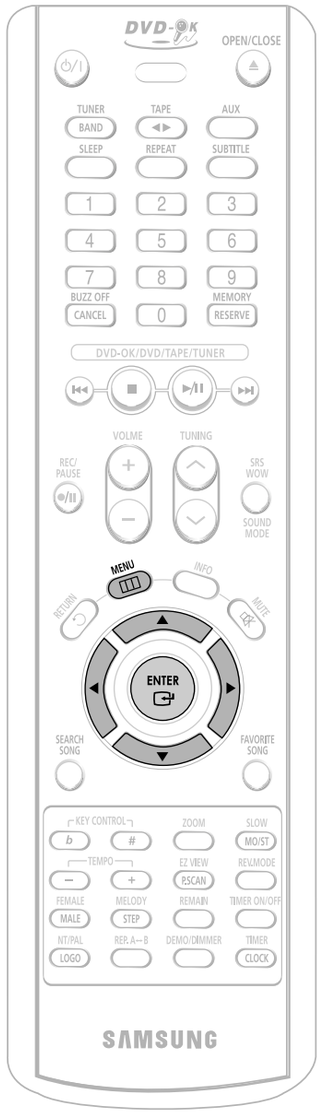
- When playing a VCD (version 2.), this toggles between PBC ON and OFF.

2 Press Cursor ▲,▼ buttons to move to 'DISC MENU' and then press **ENTER** button.

- When you select the disc menu that is not supported by the disc, the "**This menu is not supported**" message appears on the screen.

3 Press Cursor ▲,▼, ◀,▶ buttons to select the desired item.

4 Press **ENTER** button.



Note

PBC (Playback Control) Function

When playing a VCD (version 2.0), you can select and view various scenes according to the menu screen.

PBC ON: This VCD disc is version 2.0. The disc is played back according to the menu screen. Some functions may be disabled. When some functions are disabled, select "PBC OFF" to enable them.

PBC OFF: This VCD disc is version 1.1. The disc is played back in the same way as with a music CD.

Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie.
Depending on the disc, this function may either not work at all or may work differently.

DVD

1 Press **MENU** button in the stop mode.

2 Press Cursor ▲,▼ button to move to 'Title Menu'.

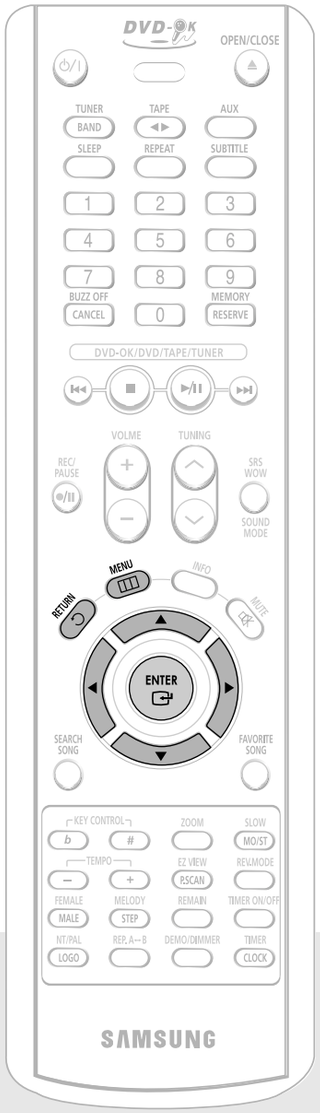
3 Press **ENTER** button.

- The title menu appears.

Press **MENU** button to exit the setup screen.

Setting the Language

OSD (On-Screen Display) language is set to English by default.



1 Press **MENU** button in the stop mode.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Select '**Language**' and then press **ENTER** button

4 Press Cursor ▲,▼ button to select '**OSD Language**' and then press **ENTER** button.

5 Press Cursor ▲,▼ button to select the desired language and then press **ENTER** button.

- Once the setup is complete, if the language was set to English, OSD will be displayed in English.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Note

• To select other language, select OTHER and enter the language code of your country.

AUDIO, SUB TITLE and DISC MENU language can be selected.

Selecting the OSD Language

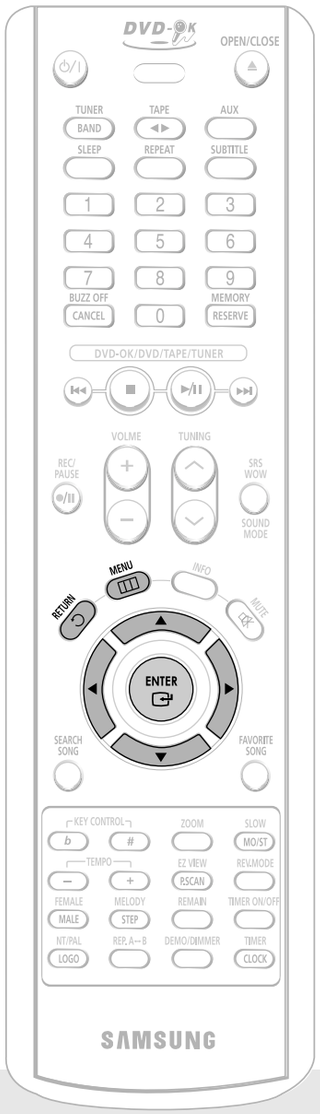
Selecting the Audio Language (recorded on the disc)

Selecting the Subtitle Language (recorded on the disc)

Selecting the Disc Menu Language (recorded on the disc)

* If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

Setting TV Screen type



1 Press **MENU** button in the stop mode.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'TV DISPLAY' and then press **ENTER** button.

4 Press Cursor ▲,▼ button to select the desired item and then press **ENTER** button.

- Once the setup is complete, you will be taken to the previous screen.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Adjusting the TV Aspect Ratio (Screen Size)

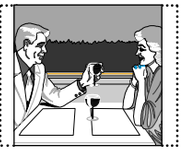
The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of wide screen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen size, you should adjust the aspect ratio to fit your TV or monitor.

✶ For a standard TV, select either "4:3LB" or "4:3PS" option according to personal preference. Select "16:9" if you have a wide screen TV.

WIDE : Select this to view a 16:9 picture in the full-screen mode on your wide screen TV.
- You can enjoy the wide screen aspect.

4:3LB (4:3 Letterbox) : Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- Black bars will appear at the top and bottom of the screen.

4:3PS (4:3 Pan&Scan) : Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).



Note
- If a DVD is in the 4:3 ratio, you cannot view it in wide screen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Setting Parental Controls (Rating Level)

Use this to restrict playback of adult or violent DVDs you do not want children to view.

1 Press **MENU** button in the stop mode.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'PARENTAL' and then press **ENTER** button.

4 Press Cursor ▲,▼ button to select the desired rating level and then press **ENTER** button.

- If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
- The higher the level, the closer the content is to violent or adult material.

5 Enter the password and then press **ENTER** button.

- The password is set to "7890" by default.
- Once the setup is complete, you will be taken to the previous screen.

Note

- This function works only if a DVD disc contains the rating level information.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the Password

You can set the password for the Parental (rating level) setting.

1 Press **MENU** button in the stop mode.

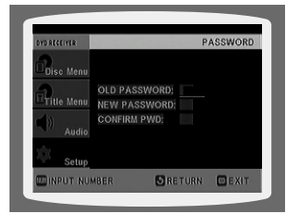
2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'PASSWORD' and then press **ENTER** button.

4 Press **ENTER** button.

5 Enter the password and then press **ENTER** button.

- Enter the old password, a new password, and confirm new password.
- The setting is complete.



Press **RETURN** button to return to the previous level.

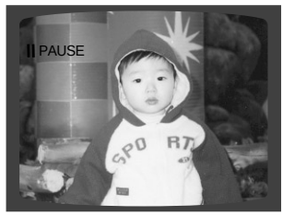
Press **MENU** button to exit the setup screen.

Setting the Wallpaper JPEG DVD VCD

While watching a DVD, VCD, or JPEG CD, you can set the image you like as a wallpaper.

Setting the Wallpaper

1 During playback, press **PLAY/PAUSE** button when the image you like comes up.

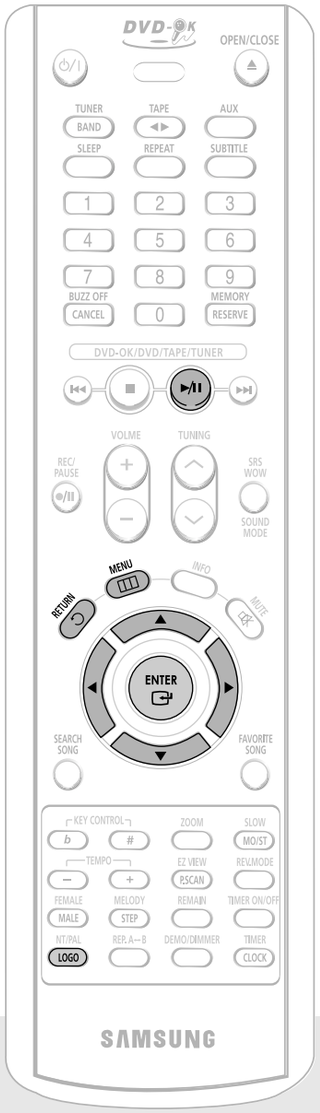


2 Press **LOGO** button.

- "**LOGO COPY DATA**" will be displayed on the TV screen.

3 The power will turn off and then back on.

- The selected wallpaper will be displayed.



Select this to set the Samsung Logo image as your wallpaper.

Select this to set the desired image as your wallpaper.

To Change the Wallpaper

1 Press **MENU** button in the stop mode.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'LOGO' and then press **ENTER** button.

4 Press ▼ to select the desired 'USER', and then press **ENTER**.

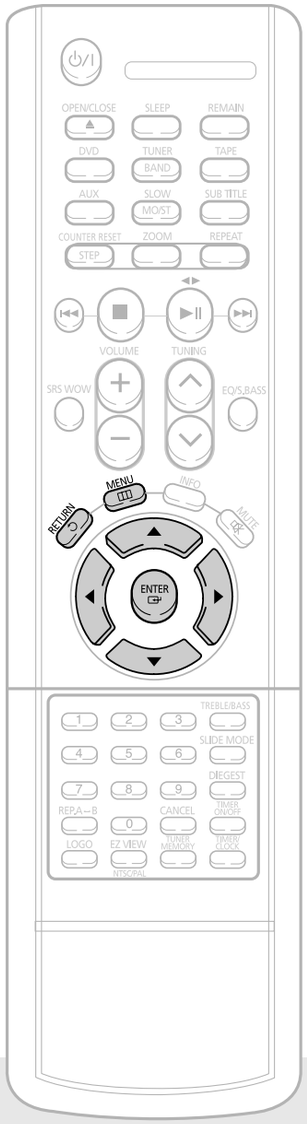
5 Press **MENU** button to exit the setup screen.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



1 Press **MENU** button in the stop mode.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 If "**DRC**" is selected, press **ENTER**.

4 Press Cursor ▲,▼ to adjust the 'DRC'.

- The Cursor ▲ button is pressed, the greater the effect, and the Cursor ▼ button is pressed, the smaller the effect.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

AV SYNC Setup

Video may lag behind the audio if the unit is connected to a digital TV. If this occurs, adjust the audio delay time to sync up with the video.

1 Press the **MENU** button.

- Setup menu appears.

2 Press Cursor ▲, ▼ buttons to move to 'Audio' and then press **ENTER** button.

- 'Audio' menu appears.

3 Press Cursor ▲, ▼ buttons to move to 'AV-SYNC' and then press **ENTER** button.

- AV-SYNC screen appears.

4 Press Cursor ▲,▼ buttons to select the Delay Time of AV-SYNC and then press the **ENTER** button.

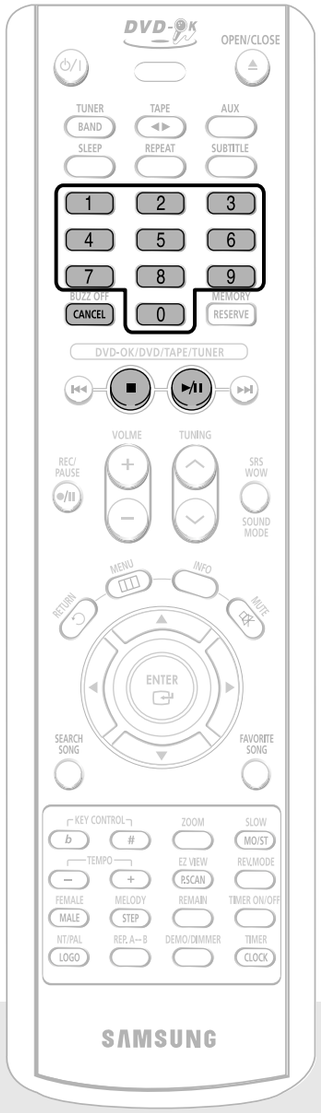
- You can set the audio delay time between 0 ms and 300 ms. Set it for the best sync up with audio.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Playing DVD-OK Discs

You can enjoy the feeling of a karaoke bar in the comfort of your home. Watch the video and sing along the lyrics displayed on the TV screen against the accompaniment.



1 Use the **NUMERIC** (0~9) buttons to select the song you want to play back.

2 Press the **PLAY/PAUSE(▶/Ⅱ)** button or the **ENTER** button.

- The numeric and title of the song will be displayed and the accompaniment starts.

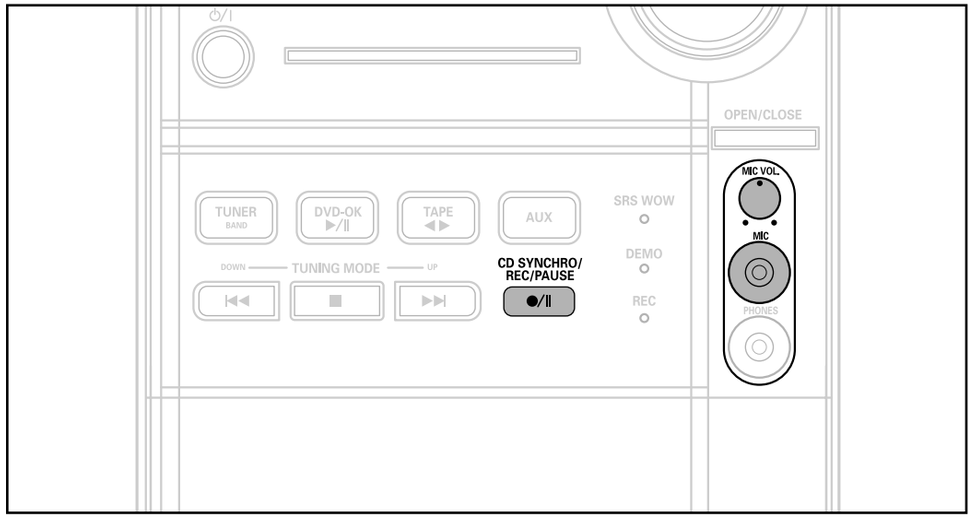
To Clear Incorrectly Entered Song Numeric

- Press the **CANCEL** button.

To Stop During Accompaniment

- Press the **STOP** button.

Connecting Microphone



Plug the microphone with a 3.5 ø MIC jack into microphone terminal.

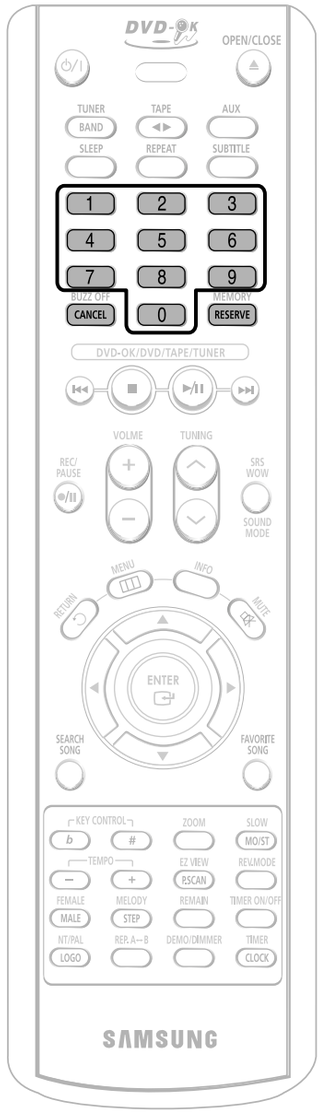
- Connect the Microphone.
- Turn the **MIC LEVEL** knob to adjust the **MIC** volume.
- During using the Microphone, you can press **REC/PAUSE** button to record your favorite sounds.

Note

- If you hear strange noises (squealing or howling) while using the Karaoke feature, move the microphone away from the speakers. Turning down the microphone volume or the speaker volume is also effective.

Reserving Accompaniment Music

While the accompaniment is playing, you can reserve the next song you want to sing.



1 Press the **NUMERIC** (0~9) buttons to select the song you want to reserve.

2 Press the **RESERVE** button.

- The next song is reserved.

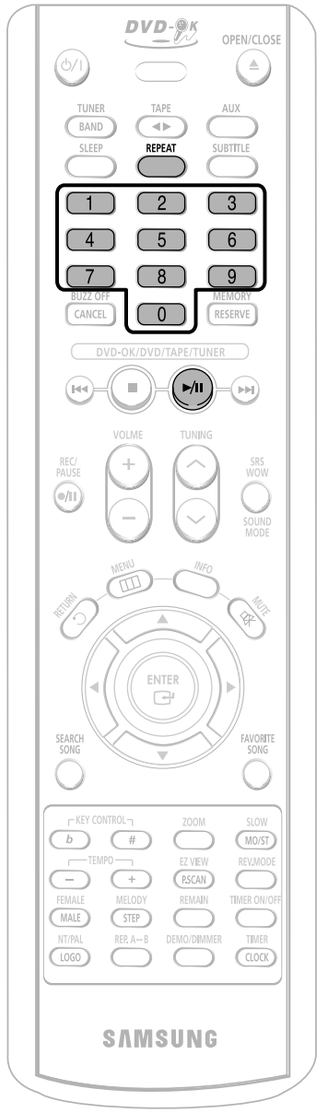
To Cancel the Reservation

1 Enter the numeric of the song you have reserved.

2 Press the **CANCEL** button.

Priority Playing Accompaniment Music

Even if there is a song already reserved, you can have the song you want to sing to be played first.



1 In Stop mode, press the **NUMERIC** (0~9) buttons to select the song you want to play back.

2 Press the **PLAY/PAUSE**(▶/❚❚) button

DVD-OK Repeat Play

Press the **REPEAT** button.

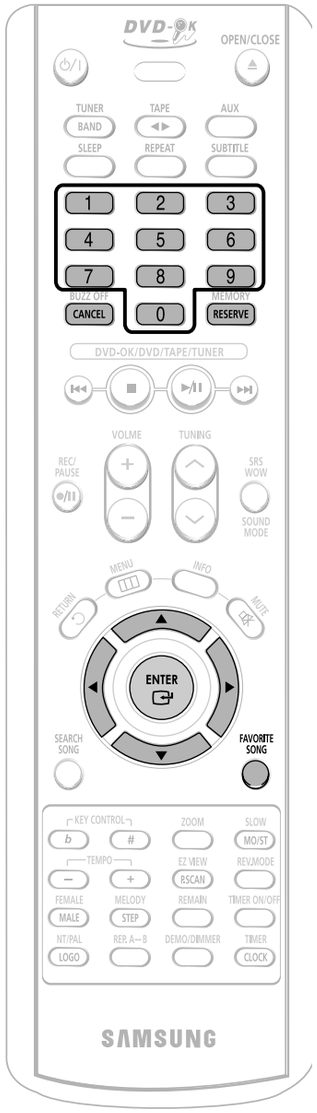
- Each time the button is pressed, the selection changes as follows: **REPEAT OFF → REPEAT ONE → REPEAT ALL → RANDOM**.

Note

- REPEAT function will not operate if RESERVE function is set while **DVD-OK** is played.

Favorite Song Function

You can save 18 songs you like or sing often each in FAVORITE1, 2, 3, a total of 54 songs to easily find and sing a your favorite song.



Saving FAVORITE SONG

1 During the stop mode, press the **FAVORITE** button.

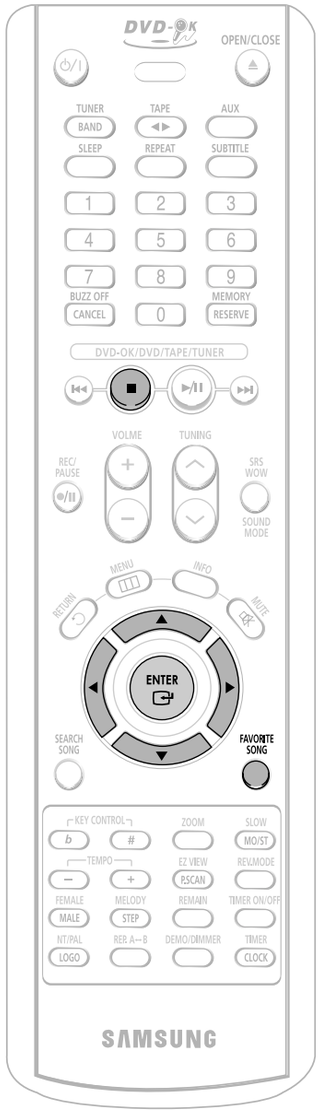
2 Press ◄ , ► button to select the location to save among FAVORITE1, 2, 3.

3 Press the **number (0~9)** button to enter the song you want.

4 Press the **RESERVE** button to save it.

Deleting FAVORITE SONG

1. During the stop mode, press the **FAVORITE** button.
2. Press ▲,▼ button to select the song to delete.
3. Press the **CANCEL** button.



Singing FAVORITE SONG

1 During the stop mode, press the **FAVORITE** button.

2 Press ◄ , ► button to select the location of song among FAVORITE 1, 2, 3.

3 Press ▲, ▼ button to select the song you want.

4 Press the **ENTER** button to play back selected song.

To Exit FAVORITE SONG Screen

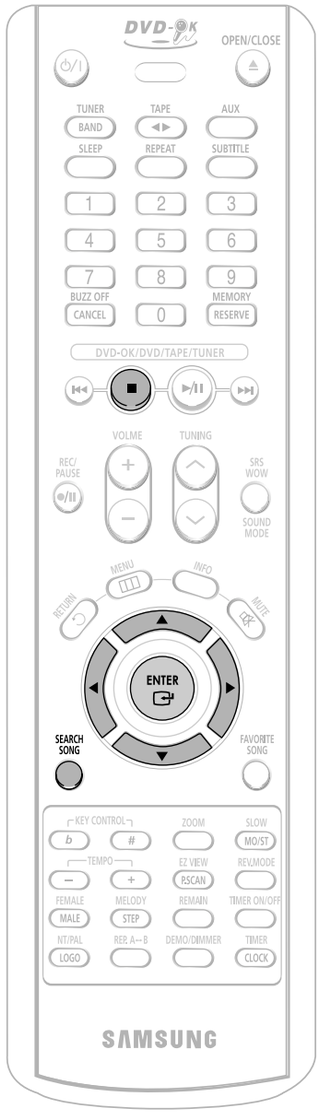
- Press ■ (STOP) button or **FAVORITE** button.

Search Song Function

You can easily do song search on screen without viewing the song list book.

Structure of Song Search

Items	Detailed Items	Alphabet
RUSSIA	NAME/SINGER	A ~ Я
ENGLISH	NAME/SINGER	A ~ Z
UKRAINE	NAME/SINGER	A ~ Я
DUET SONG	-	
GENRE	ROCK	
	CHANSON	
	FOLK	
	BARD	
	ROMANCES	
HITS SONGS	MODERN	
	30-60S	
	70S/80S	
	CHILDREN	
	ARMY	



Search by Language

1 During the stop mode, press the **SEARCH SONG** button and then press ▲,▼ button to select the language you want.

- You can select the language among **RUSSIA → ENGLISH → UKLAINE**.
- At this time, press ◄ button to move to the song list on the bottom.

2 Press ▶ button to move to the detailed items and then press ▲,▼ button to select the NAME or SINGER.

- Press ◄ button if you want to move to the previous stage.

3 Press ▶ button to move to alphabet and press ▲,▼ button to select it.

- Press ◄ button if you want to move to the previous stage.

4 Press ▶ button to move to the song list on the bottom and then press ▲,▼ button to select the song you want.

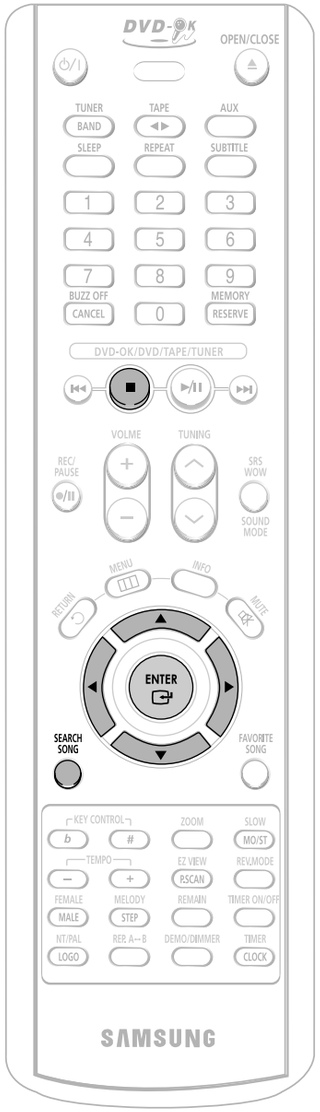
- Press ◄ button if you want to move to the previous stage.

5 Press the **ENTER** button to play back selected song.

To Exit Search Song Screen

- Press ■ (STOP) button or **SEARCH SONG** button.

Search Song Function (Con't)



Searching DUET SONG

1 During the stop mode, press the **SEARCH SONG** button and then press ▲, ▼ button to select the DUET SONG.

2 Press ◄, ► button to move to the song list on the bottom.

3 Press ▲, ▼ button to select the song you want.

- Press ◄ button if you want to move to the previous stage.

4 Press the **ENTER** button to play back selected song.

To Exit Search Song Screen

- Press ■ (STOP) button or **SEARCH SONG** button.

Searching by Genre

1 During the stop mode, press the **SEARCH SONG** button and then press ▲, ▼ button to select the GENRE.

- At this time, press ◄ button to move to the song list on the bottom.

2 Press ► button to move to the detailed items and then press ◄, ► button to select the genre you want.

- You can select the genre among **ROCK → CHANSON → FOLK → BARD → ROMANCES**.
- Press ◄ button if you want to move to the previous stage.

3 Press ► button to move to the song list on the bottom and then press ▲, ▼ button to select the song you want.

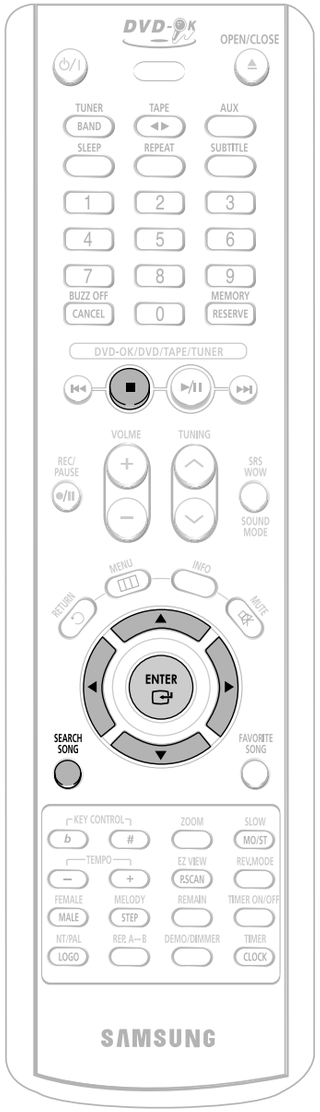
- Press ◄ button if you want to move to the previous stage.

4 Press the **ENTER** button to play back selected song.

To Exit Search Song Screen

- Press ■ (STOP) button or **SEARCH SONG** button.

Search Song Function (Con't)



Searching by HITS SONGS

1 During the stop mode, press the **SEARCH SONG** button and then press ▲,▼ button to select the HITS SONGS.

- At this time, press ◄ button to move to the song list on the bottom.

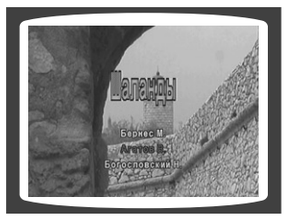
2 Press ► button to move to the detailed items and then press ▲,▼ button to select the hits song.

- You can select the song amongg **MODERN → 30-60S → 70S/80S → CHILDREN → ARMY**.
- Press ◄ button if you want to move to the previous stage.

3 Press ► button to move to the song list on the bottom and then press ▲,▼ button to select the song you want.

- Press ◄ button if you want to move to the previous stage.

4 Press the **ENTER** button to play back selected song.

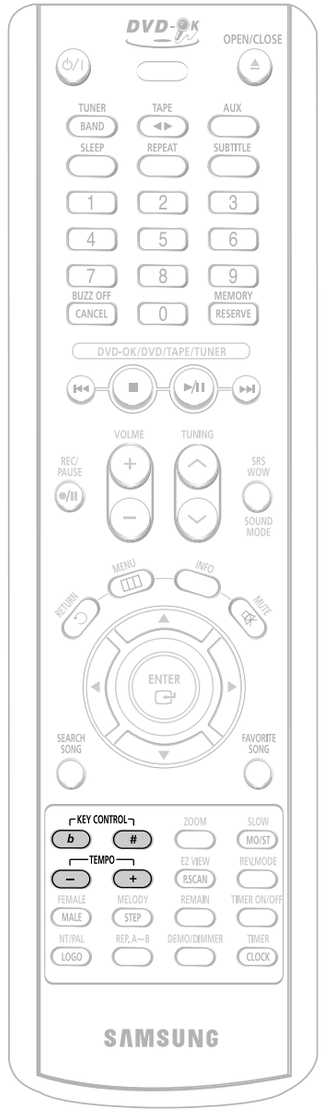


To Exit Search Song Screen

- Press ■ (STOP) button or **SEARCH SONG** button.

Key Control / Tempo Control

You can easily do song search on screen without viewing the song list book.



Key Control

During the playback, press the **KEY CONTROL** buttons.

- Each time **#** button is pressed, the key is increased, and each time **b** button is pressed, the key is decreased .

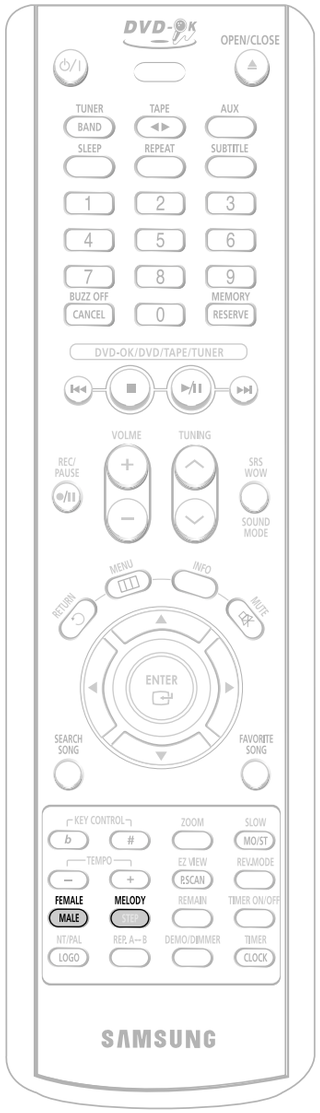
Tempo Control

During the playback, press the **TEMPO** buttons.

- Each time **+** button is pressed, the tempo gets faster, and each time **–** button is pressed the tempo gets slower.

SETUP

Male-Female Key Control / Melody Function



Male-Female Key Control

During the playback, press the **FEMALE** button.

- Each time the button is pressed, this selection alternates between Male and Female.
- Select Male when singing in male voice and select Female when singing in female voice.

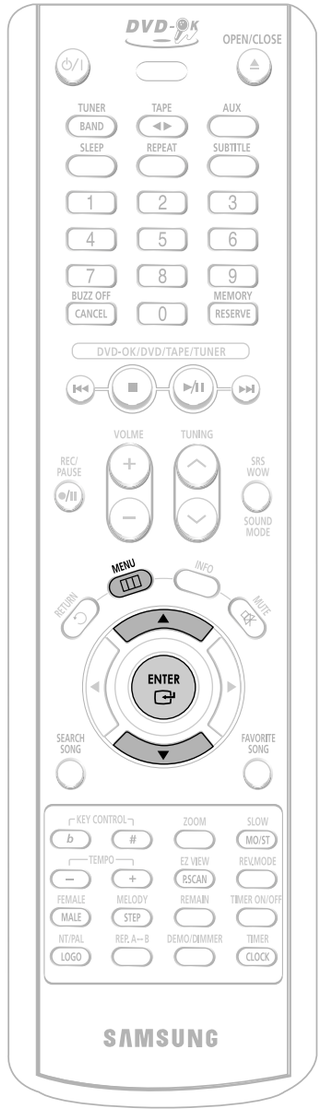
Melody Function

During the playback, press the **MELODY** button.

- Each time the button is pressed, the selection changes as follows: **OFF → MILD → STANDARD → STRONG**.
- Select Melody ON to hear to the melody during accompaniment.

Setting the Chorus

You can set the chorus to strong, middle, weak or OFF.



1 Load a DVD-OK discs.

2 Press **MENU** button.

3 Press Cursor ▲,▼ button to move to 'Chorus'.

4 Press **ENTER** button to select the desired item.

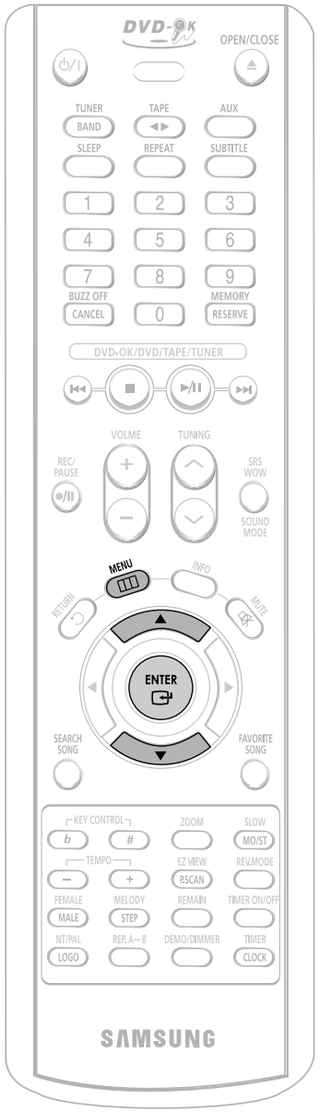
- Each time the button is pressed, the selection changes as follows: **LOW → MIDDLE → HIGH → OFF**.

Note

- If you operate the Tempo function while a song with supporting chorus is played back, the chorus will be released.
- Chorus function may not work depending on information recorded in the disc.

Setting the Fanfare

You can set Fanfare to come out after singing a song.



1 Load a DVD-OK discs.

2 Press **MENU** button.

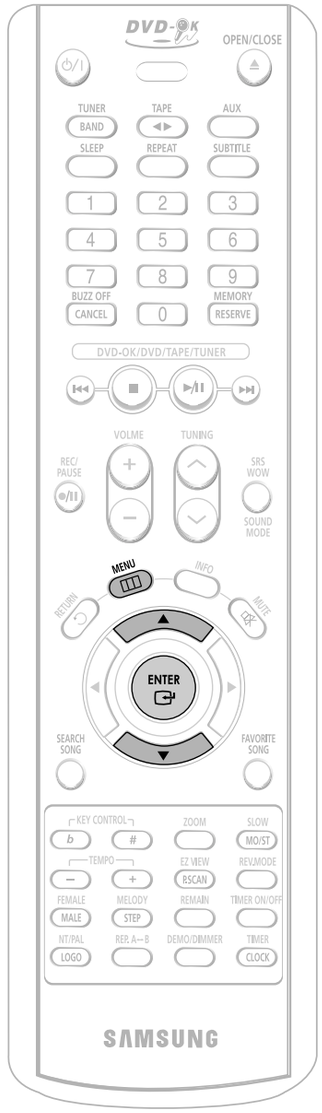
3 Press Cursor ▲,▼ button to move to ‘Fanfare’.

4 Press **ENTER** button to select the desired item.

- Each time the button is pressed, the selection changes as follows: **ON → OFF**.

Setting the Average Score

You can set the grade of scores displayed in the screen in advance.



1 Load a DVD-OK discs.

2 Press **MENU** button.

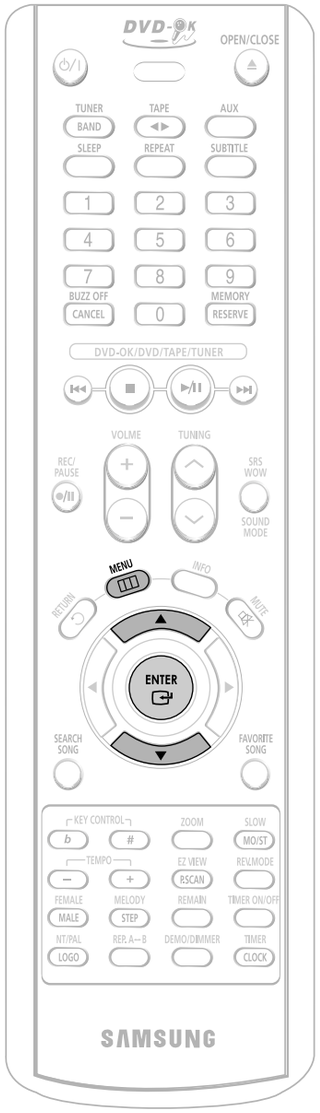
3 Press Cursor ▲,▼ button to move to ‘Average Score’.

4 Press **ENTER** button to select the desired item.

- Each time the button is pressed, the selection changes as follows: **LOW → MIDDLE → HIGH → OFF**.

Setting the Shadow

You can set the lyrics to be displayed in the black strips.



1 Load a DVD-OK discs.

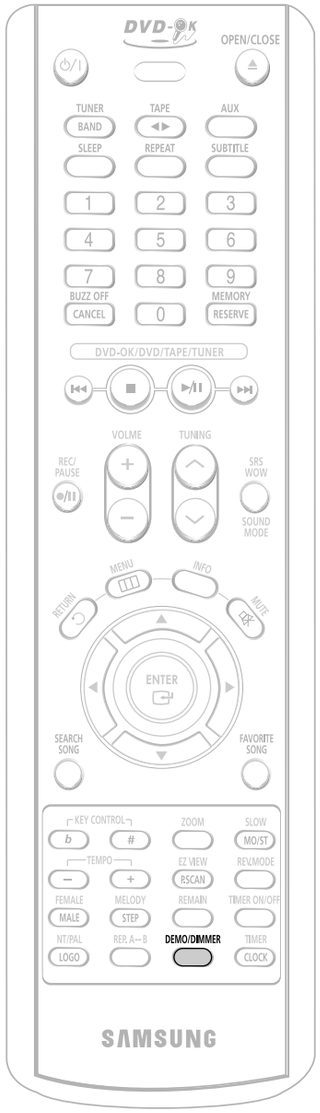
2 Press **MENU** button.

3 Press Cursor ▲,▼ button to move to ‘Shadow’.

4 Press **ENTER** button to select the desired item.

- Each time the button is pressed, the selection changes as follows: **ON → OFF**.

DEMO / DIMMER Function



DEMO Function

You can view the various functions available on your system.

Press and hold **DEMO/DIMMER** button.

- The various functions available are listed in turn on the display.
- All these functions are described in detail in this booklet. For instructions on how to use them, refer to the appropriate sections.

To cancel this function, press **DEMO/DIMMER** again.

DIMMER Function

You can adjust the brightness of the display on the main unit.

Press **DEMO/DIMMER** button.

- Each time the button is press, the brightness changes as follows: **DIMMER ON(Dim) → DIMMER OFF(Bright)**.

Listening to Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic or manual tuning operation.

Remote Control Unit

1 Press **TUNER/ BAND** button.

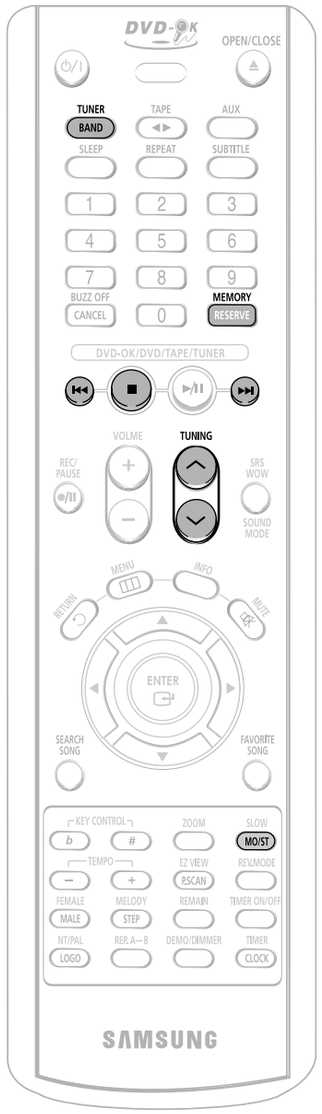
- The selection toggles back and forth between "FM → AM" each time the **TUNER(BAND)** button is pressed.

2 **Tune in to the desired station.**

Automatic Tuning 1 Press the **STOP** (■) button to select PRESET and then press TUNING button to select the preset station.

Automatic Tuning 2 Press the **STOP** (■) button to select "**AUTO**" and then press TUNING button to automatically search the band.

Manual Tuning Press the **STOP** (■) button to select "**MANUAL**",Briefly press TUNING to increase or decrease the frequency incrementally.



Main Unit

1 Press the **Function** button to select the desired band (FM, AM).

2 Select a broadcast station.

Automatic Tuning 1 Press the **STOP** (■) button to select PRESET and then press ◀◀ ▶▶ button to select the preset station.

Automatic Tuning 2 Press the **STOP** (■) button to select "**AUTO**" and then press ◀◀ ▶▶ button to automatically search the band.

Manual Tuning Press **STOP** (■) to select MANUAL and then briefly press ◀◀ ▶▶ to tune in to a lower or higher frequency.

Press **MO/ST** button to listen in Mono/Stereo.
(This applies only when listening to an FM station.)

- Each time the button is pressed, the sound switches between "STEREO" and "MONO".
- In a poor reception area, select MONO for a clear, interference-free broadcast.

Presetting Stations

You can store up to:

- 15 FM stations
- 15 AM stations

- **FM** ..... Frequency Modulation
- **AM** ..... Medium Wave

Example: Presetting FM 89.1 in the memory

1 Press the **TUNER(BAND)** button and select the FM band.

- Each time the button is pressed, the band switches between "FM → AM".

2 Press TUNING to select "89.10".

- Refer to Step 2 on page 59 to automatically or manually tune in to a station.

3 Press the **MEMORY** button.

- "**PROG**" flashes in the display.

4 Press ◀◀ ▶▶ to select preset number.

- You can select between 1 and 15.

5 Press the **MEMORY** button.

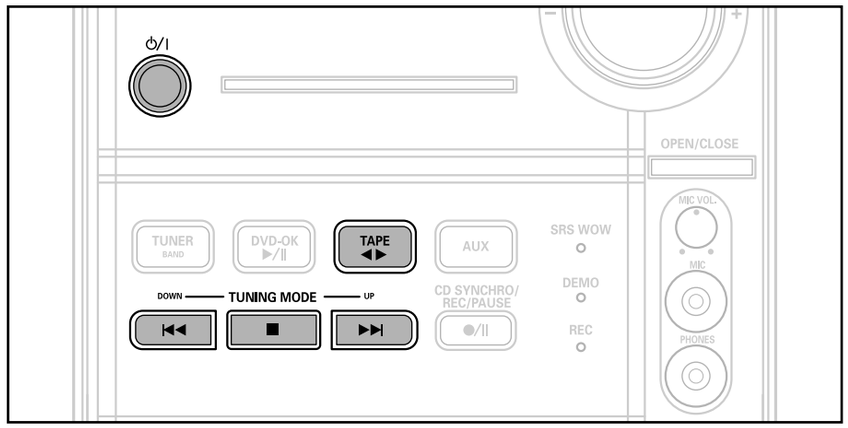
- Press the **MEMORY** button before '**PROG**' disappears from the display.
- '**PROG**' disappears from the display and the station is stored in memory.

6 To preset another station, repeat steps 2 to 5.

To tune in to a preset station, press ◀◀ ▶▶ on the remote control to select a channel.

Listening to a Cassette

Always treat your cassettes with care; refer, if necessary, to the section entitled “Precautions When Using Audio Cassettes” on page 71.



1 Switch the system on by pressing **POWER**.

2 Press **TAPE** on the player to select the Tape function.

3 Press the **PUSH EJECT** (⏏) of the cassette deck to open the cassette door and insert a cassette.

- Insert a cassette with the recording/playback side facing the cassette holder, and then push the cassette door shut.

4 Press the ◄► button. The cassette starts playing.

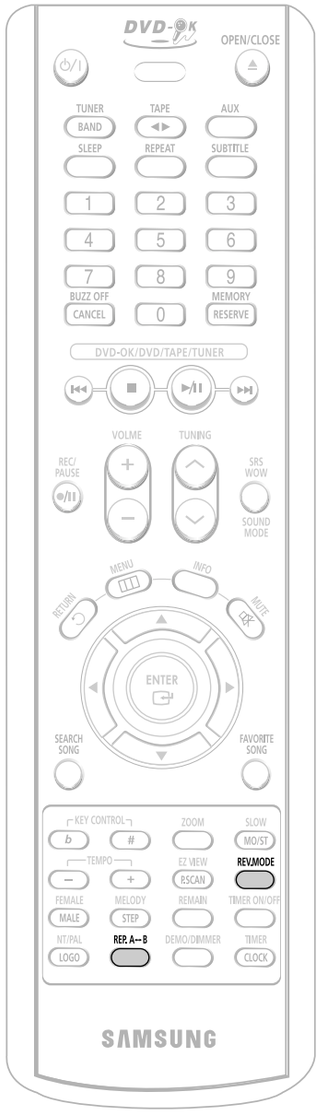
- Side A : Tape (◄►) button once.
- Side B : Tape (◄►) button twice.

5 Press the ⏮ ,⏭ button if necessary.

- Rewind the cassette ⏮ / DOWN button.
- Fast-forward the cassette UP / ⏭ button.

6 When you have finished playback, press **STOP** button.

REPEAT A↔B Function



Press **REP. A↔B** button.

- Use this to listen to a specific section again during playback.
- Set the start and end points of the section you want to repeat 3 times.
- This is a useful when learning a foreign language.
- The TAPE REPEAT function can be used only on sections that are longer than 7 seconds.

Note

- You cannot set the end point (B) within 7 seconds after setting the start point (A).

Selecting the Cassette Playback Mode

Your micro component system has three cassette playback modes which enable you to listen to both sides of a cassette automatically.

Press **REV.MODE** until the appropriate symbol is displayed.

- ⇉ : One side of the selected cassette and then stops.
- ⇄ : One side of the cassette.
  The other side of the cassette and then stops.
- 🔁 : Both sides of the cassette indefinitely until you press stop.

Timer Function

- The timer enables you to switch the system on or off at specific times.
- If you no longer want the system to be switched on or off automatically, you must cancel the timer.
- Before setting the timer, check that the current time is correct.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

Example: You wish to wake up to music every morning.

1 Switch the system on by pressing **POWER**.

2 Press **TIMER/CLOCK** until **TIMER** is displayed.

3 Press the **ENTER** button.

- **ON TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.

a. Set the hour by pressing ◀ or ▶ button.
b. Press **ENTER**.
- The minutes flash.

c. Set the minutes by pressing ◀ or ▶ button.
d. Press **ENTER**.
- **OFF TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

5 Set the timer switch-off time.

a. Set the hour by pressing ◀ or ▶ button.
b. Press **ENTER**.
- The minutes flash.

c. Set the minutes by pressing ◀ or ▶ button.
d. Press **ENTER**.
- **VOL 10** is displayed, where 10 corresponds to the volume already set.

6 Press ◀ or ▶ button to adjust the volume level and press **ENTER**.

- The source to be selected is displayed.

7 Press ◀ or ▶ button to select the source to be played when the system switches on.

- TAPE (cassette) : Insert a cassette tape.
- TUNER (radio) : **a** Press **ENTER**.
  b Select a preset station by pressing Tuning ◀ or ▶ .
- CD (compact disc) : Load a compact disc.

8 Press **ENTER** to confirm the timer.

9 Press **POWER** to set the system to standby mode.

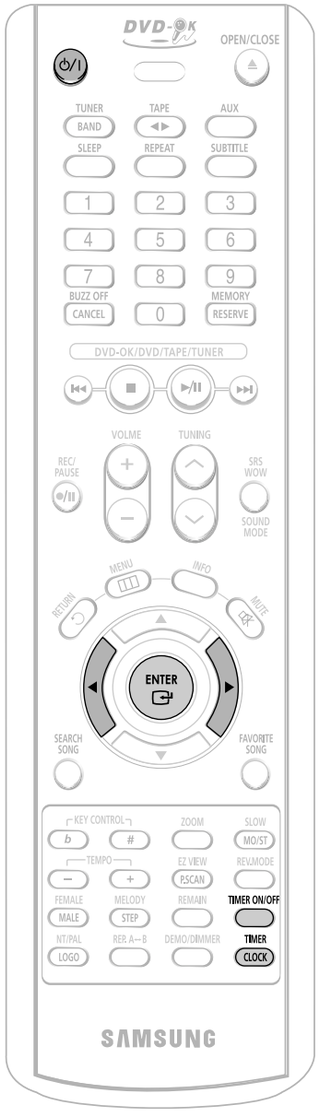
- ◷ is displayed to the top-right of the time, indicating that the timer has been set.
- The system will switch on and off automatically at the required times.

Note

- If the timer switch on and off times are identical, the word **ERROR** is displayed.

Canceling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.



To cancel the timer, press **TIMER ON/OFF** once.

- ◷ is no longer displayed.

To resume the timer, press **TIMER ON/OFF** again.

- ◷ is displayed again.

Note

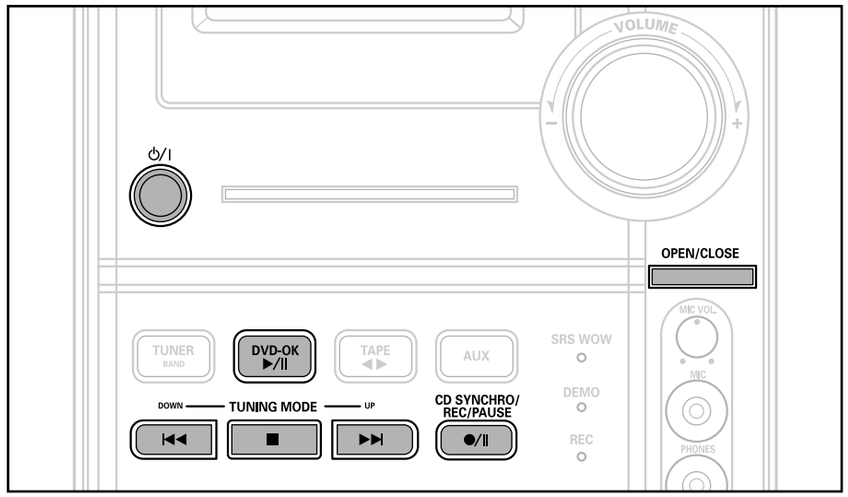
- You can cancel the timer while the power is on or while the player is in standby.

Recording a Compact Disc

You can record a compact disc on a cassette in two different ways:

Synchronised recording

- This feature enables you to synchronize the start of the recording with the start of the disc or track of your choice.
- This function operates only during playback of CD DISC.



1 Switch the system on by pressing **POWER**.

2 Insert a blank cassette in Deck.

- Press the **PUSH/EJECT** button (⏏) to open the cassette door, insert a cassette, and then close the cassette door.
- Insert the cassette with the safety tabs.

3 Load a compact disc.

- Press the **OPEN/CLOSE** button (⏏) to open the CD door.
- Insert a CD and press the **OPEN/CLOSE** button (⏏) to close the CD door.

4 Press the **DVD-OK** (▶II) button.

- Use the CD selection (I◀◀ , ▶▶I) buttons to select the desired song.

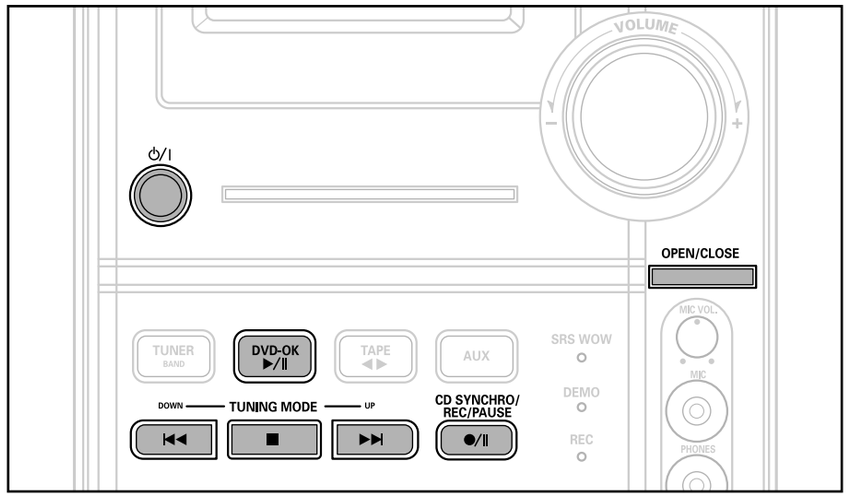
5 Press and hold CD SYNCHRO button.

- When stopped, press the button to start the recording from the first piece of music.
- Press and hold ●/II **(REC/PAUSE)** button during the playback of CD to start the recording from the first part of the music being played.

6 To stop recording, press ■ button.

Direct recording

The direct recording mode enables you to start recording with any track on the compact disc.



1 Switch the system on by pressing **POWER**.

2 Insert a blank cassette in Deck.

- Press the **PUSH/EJECT** button (⏏) to open the cassette door, insert a cassette, and then close the cassette door.
- Insert the cassette with the safety tabs.

3 Load a compact disc.

- Press the **OPEN/CLOSE** button (⏏) to open the CD door.
- Insert a CD and press the **OPEN/CLOSE** button (⏏) to close the CD door.

4 Press the **DVD-OK** (▶II) button.

- Use the CD selection (I◀◀ , ▶▶I) buttons to select the desired song.

5 Press **REC/ PAUSE** button.

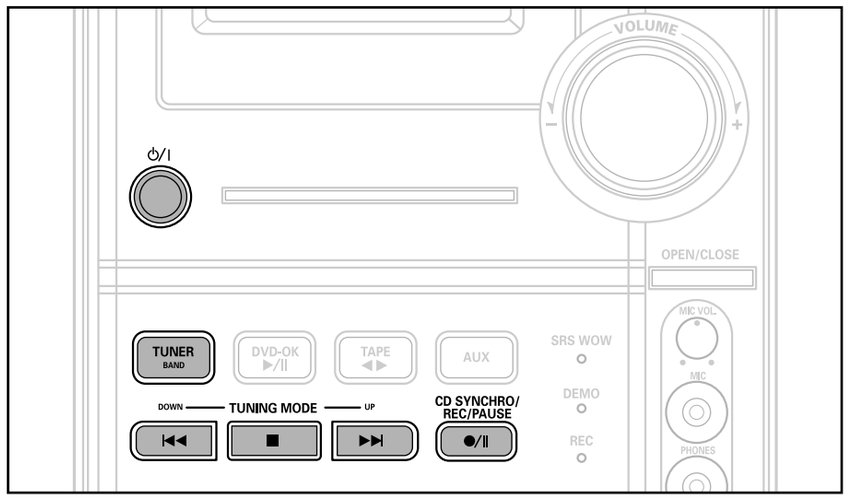
- Recording will begin.
- To stop recording, press ■ button.

Note

- The cassette tape you want to record on must have the safety tabs intact.

Recording a Radio Program

You can record a radio program of your choice.
You do not need to adjust the volume, as it has no effect on the recording.



1 Switch the system on by pressing **POWER**.

2 Insert a blank cassette in Deck.

3 Select the TUNER function by pressing **TUNER/BAND**.

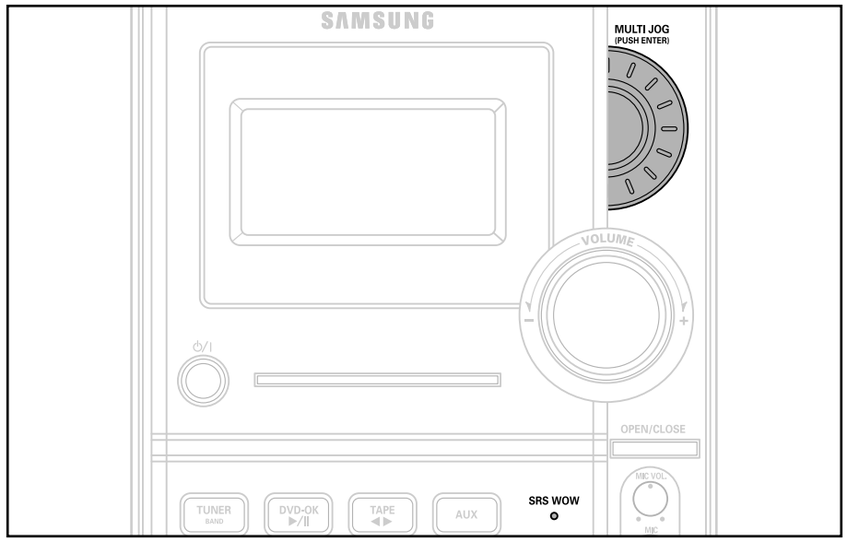
4 Select the radio station that you wish to record by pressing **I◄◄/DOWN** or **UP/►►I** button .

5 Press **REC/PAUSE** button.

- **REC** is displayed in red and recording starts.

6 To stop recording, press ■ button.

SRS WOW / SOUND MODE Function



SRS WOW Function

You can enjoy realistic surround sound by using the SRS and TruBass sound field functions and the SRS WOW function that enhances sound clarity.

1 Press the **PUSH ENTER** button until "**SRS OFF**" appears.

2 Turn the **MULTI JOG** to select the function you want.

Result : Each time the button is pressed, the selection changes as follows: **SRS OFF → TRU BASS → SRS → SRS WOW**.

- **TruBASS Function** : Enhances the bass and low frequencies to produce deep and rich bass sounds.
- **SRS Function** : Provides the surround sound that fills the room.
- **SRS WOW Function** : Provides the surround sound effects with enhanced sound field depth and bass, through speakers and headphones.

Note

- SRS(●) WOW is a trademark of SRS Labs, Inc.
- WOW technology is incorporated under license from SRS Labs, Inc.

SOUND MODE/S.BASS Function

Your micro component system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.

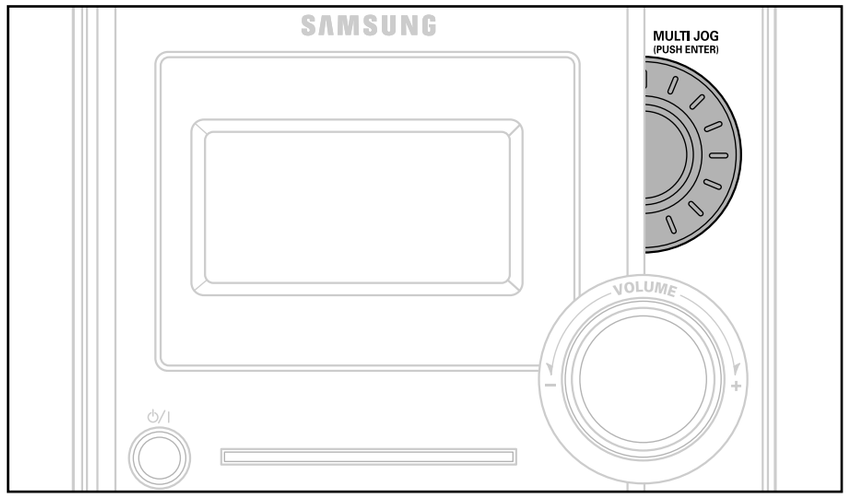
1 Press the **PUSH ENTER** button until "**EQ PASS**" appears.

2 Turn the **MULTI JOG** to select the mode you want.

Result : As you turn the **MUTI JOG, POP → ROCK → CLASSICAL → JAZZ → S.BASS → P'SOUND → EQ PASS** will be selected in turn.

- **S.BASS Function** : S.Bass function emphasizes the bass sound to produce the effect of explosion or booms.
- **P.SOUND Function** : You can experience the powerful and realistic sound by amplifying bass and improving the sound quality of high- and low-pitched sounds by two-fold.

Treble Control / Bass Control Function



Treble Control Function

The Treble control function has the effect of emphasizing the treble sound.

1 Press the **PUSH ENTER** button until "**TREB**" appears.

2 Turn the **MULTI JOG** to select the level you want, from **TRE-7 ~ TRE+7**.

Bass Control Function

The Bass control function emphasizes the bass, providing a deep sound effect.

1 Press the **PUSH ENTER** button until "**BASS**" appears.

2 Turn the **MULTI JOG** to select the level you want, from **BASS-7 ~ BASS+7**.

Sleep Timer / BUZZ Function

Sleep Timer Function

You can set the time that the DVD player will shut itself off.

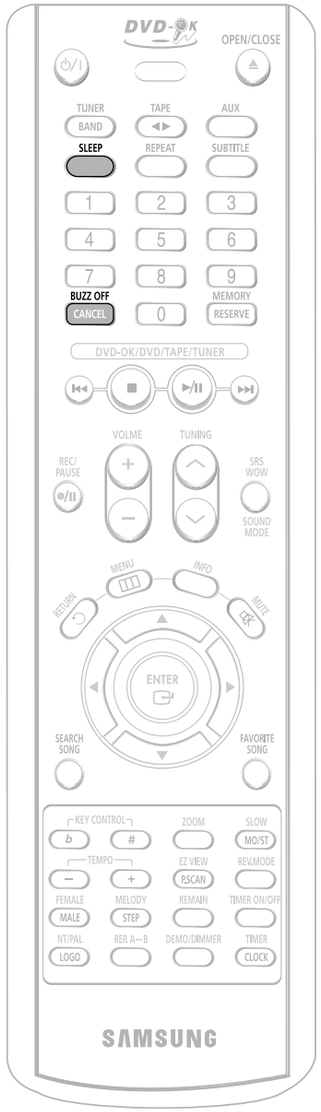
Press **SLEEP** button.

- Each time the button is pressed, the selection changes as follows: **90 MIN → 60 MIN → 45 MIN → 30 MIN → 15 MIN → OFF**.

To confirm the sleep timer setting, press **SLEEP** button.

- The remaining time before the DVD player will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press **SLEEP** button until OFF appears on the display.



BUZZ Function

You can turn on or off the Buzz sound on the button parts at the front of the main unit.

Press and hold the **BUZZ OFF** button on the remote control for over 2 seconds.

- Whenever you press the button, "**BUZZER ON**" and "**BUZZER OFF**" are repetitively in turn.

Mute Function / Connecting Headphones

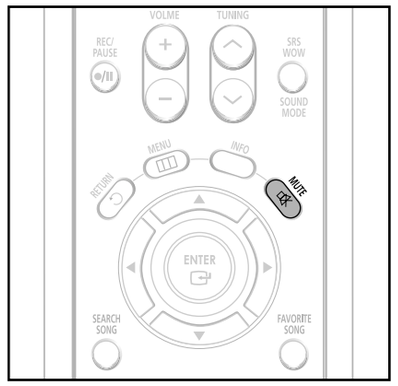
You can connect a set of headphones to your micro component system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 3.5ø jack or an appropriate adapter.

Mute Function

This is useful when answering a doorbell or telephone call.

Press **MUTE** button.

- '**MUTE**' appears in the display.
- To turn off mute, press the button again.



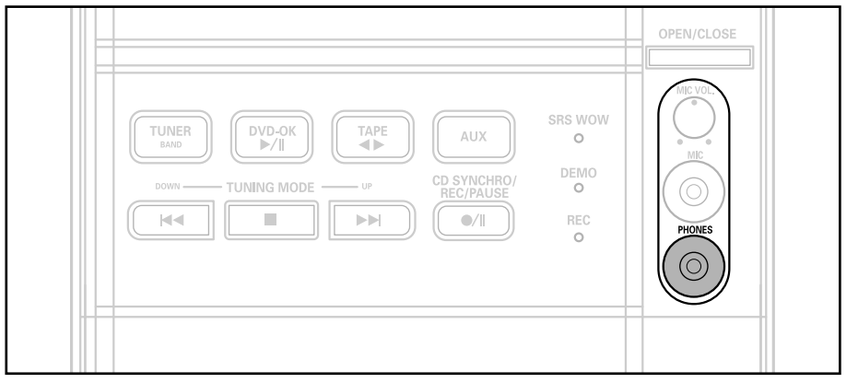
Connecting Headphones

Connect the headphones to the **PHONES** jack on the front panel.

- The loudspeakers are no longer used to output the sound.

Note

- Prolonged use of headphones at a high volume may damage your hearing.



Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

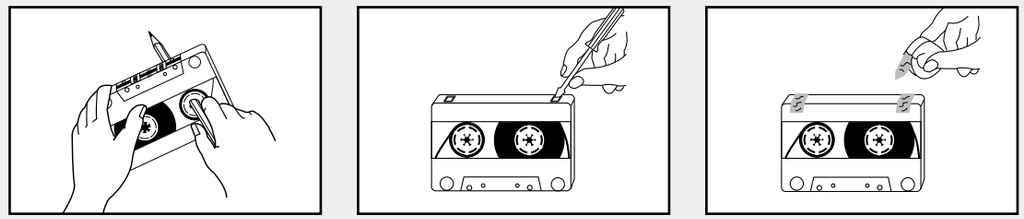
- When cleaning, wipe gently from the inside to the outside of the disc.

Note

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

Precautions When Using Audio Cassettes

- Check that the tape in the cassette is sufficiently taut.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.



Before Calling for Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

Symptom	Check/Remedy
Disc tray does not open.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start.	• Check the region number of the DVD. DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this DVD player. • Make sure that the rating level is correct.
The remote control does not work.	• Is the remote control being operated within its operation range of angle and distance? • Are the batteries exhausted?
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• No sound is heard during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Picture does not appear, sound is not produced, or the disc tray opens 2 to 5 seconds later.	• Was the DVD player suddenly moved from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player again after condensation disappears.)
• Disc is rotating but no picture is produced. **• Picture quality is poor and picture is shaking.**	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.

Symptom	Check/Remedy
Audio language and subtitles do not work.	• Audio language and subtitles will not work for DVDs not containing them. And depending on the disc, they may work differently.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	• You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
The tape does not start playing	• The TAPE function has not been selected. • The cassette has not been inserted correctly. • The cassette player has not been closed. • The tape is either slack or broken.
The volume falls off **The cassette is not erased correctly** **There is excessive wow and flutter**	• The audio heads are dirty. • The rollers or drive capstans are dirty. • The tape is worn.
Can't receive radio broadcast.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
• The main unit is not working. (Example: The power goes out or strange noise is heard.) **• The DVD player is not working normally.**	• Turn off the power and hold the **STOP(■)** button on the main unit for longer than 5 seconds. Using the RESET function will erase all stored settings. Do not use this unless necessary.
The password for rating level has been forgotten.	• While “NO DISC” message appears on the display of main unit, hold the main unit's ■ button for longer than 5 seconds. “INTIALIZE” appears on the display and all settings will return to the default values. • Press the POWER button. **Using the RESET function will erase all stored settings.** **Do not use this unless necessary.**

Notes on Discs

Disc Recording Format

CD-R Discs

- Depending on the disc recording device (CD-Recorder or PC) and the condition of the disc, some CD-R discs may not be playable.
- Use a 650MB/74 minute CD-R. Other CD-R media, as they may not be playable.
- If possible, do not use CD-RW (Rewritable) media, as they may not be playable.
- Only the CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- If the name of a file is in Korean, the name will be displayed on the TV screen in Korean and * will be shown in the display of the main unit.
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written Multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- If more than 500 tracks are recorded on a single CD, a maximum of 500 tracks can be played.
- If more than 300 folders are recorded on a single CD, a maximum of 300 folders can be played.

What is MP3?
MP3 is short for MPEG-1 Audio Layer 3 and MPEG is an acronym for Moving Pictures Experts Group. MP3 is a file format with compression ratio of 1:12 (128 Kbps*) That is, you can use MP3 format to record about 12 times the usual amount of data on a regular CD.

CD-R JPEG Discs

- Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

Specifications

GENERAL	Power Consumption	75W
	Weight	5.6Kg
	Dimensions (W x H x D)	170 x 270 x 337 mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10%~75%
FM TUNER	Usable Sensitivity	10dB
	S/N Ratio	62dB
	Distortion	0.8%
AM TUNER	Usable Sensitivity	56dB/40dB
	S/N Ratio	40dB
	Distortion	2%
VIDEO OUTPUT	Composite Video	1.0Vp-p(75Ω load)
	Scart Jack	Compositive Video : 1.0Vp-p(75Ω load)
		RGB signal : 0.714Vp-p(75Ω load)
	Component Video	Y:1.0Vp-p(75Ω load)
		Pr:0.70Vp-p(75Ω load)
		Pb:0.70Vp-p(75Ω load)
AMPLIFIER	Speaker output	MAIN : 2X20W, subwoofer : 2X40W
	Frequency range	20Hz~20kHz
	S/N Ratio	75dB
	Channel separation	45dB
	Input sensitivity	(AUX)500mV
SPEAKER	Speaker system	**speaker system**
		Loudspeakers
	Impedance	MAIN : 6Ω x 2, subwoofer : 4Ω x 2
	Frequency range	20 Hz - 20 KHz (± 1 dB)
	Output sound pressure level	84dB/W/M
	Rated input	35W
	Maximum input	70W
	Dimensions (W x H x D)	115(W) x 270 (H) x 333(D) mm
	Weights	6.5 Kg

Notes on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
DOLBY DIGITAL	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with DOLBY DIGITAL disc marking). With better sound quality, dynamic range, and directionality than traditional Dolby surround technology, you can enjoy dynamic, realistic sound.